

<213> Glycine max

<223> Clone ID: jC-gmf102220073g12d1

<400> 5715

gtctgcaaac ttaataaata aatagcatta aaatttcata tggtagaact tcatgctgtc 60  
tgataaggaa ataaaaccaa tacaataggc caaaactgca agaattgccc cacagacaac 120  
cctatatctt cacgcaatat ggtaagaaaa aacaattgag gaatagaacg agaagctccc 180  
acgccacaat tccctaacct cctcttttgg actcaatcgc actattaaca ctcataatat 240  
acacattcta gagaaagttc cctttccaat cacaattgac tctgcattct caaaactgat 300  
atagaacacc atgcaagaat gaatgatgga aaccatctta tggcaaaaag aatgggtaca 360  
aatatagaga ccaccaaact ggaaaaaagc ttgttcccaa aaagagcaag acaccaactg 420  
ccaagccaga tgctatgaag aaatgatgga tatgcagcaa agcaatgaca actatgtaga 480  
aaggatagat tgcaatgc 498

<210> 5716

<211> 618

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220073h01a1

<400> 5716

aaaaaaatat attataatat ataaaataaa tttatagaaa ataaaattta actatataac 60  
aaatttaata aaaaaataa cgagaaaaat aaatataaac actaaanata taaaaaaaag 120  
cgagaaagtt gtaancccat aaanttttnn nnnnnnnccc cntnnntnnn nntnnnnnt 180  
gtggnnaaan taaataaata aataaacttt ttaaatttgc atctttaaaa atagagggga 240  
tgactgcatt aattattgac ccaagatctg ttagagcaga agtgtctgga tattacatac 300  
aacggcttgg aattcatgtt gaaatgggta tagatttaaa acaaggtttg tcaaccataa 360  
gcaatgggaa tgtagttgtt aatatgggtcc tgattgagca agagggttgg gatagagatt 420  
taggcttgtc atctcacttt gtcaataaca cgaggagaat tgatcatggg gttcctccaa 480  
aactgttcat tcttgataaa tctagtaatt cttttaaaga tagcgtaaac ttgggtgatc 540  
ataatcctac tgtgatcacc aaacctctga gagcaagtat gcatgctgac tcaactacaac 600

gagccatggg tgtccaaa

618

<210> 5717

<211> 524

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073h01d1

<400> 5717

aaaaatgtaa cgcgccatagg ctagattact ataagttgtg ttattacata cacaaggatg 60  
agactccaga acctgtatta taatacaccc tagtcttcta atcaggctca atcatttcgg 120  
ctgactttac atggaagaag aattaatggg ttatgggtacc cttaacaacc aattacaact 180  
caattgcaac caatcaaact tgggtcctat gtacactccc tgccacaaaa acaatgtttt 240  
aaaacgggaa cctttcaaac acagcagaaa agacaacaaa atagggtcaaa aaggtagaat 300  
gaaccatttc tgaacttcta caatattatc cccctttgtt ccatttgctt ttatctttca 360  
gatgagatag atagcattct tctgtctcta gtgaacaacc accaagcttt gaggtgggta 420  
aatactaaaa catgcactgg ctgttaaata gggaacttac tctgaggaga cttcggacct 480  
atttgccact tcgagtgtct ggatacggac agtacgctcc atat 524

<210> 5718

<211> 627

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220073h02a1

<400> 5718

tctaccctaa cataataaaa aataaattca cttaatttta taaatcataa cagaaattaa 60  
acaataaatt aatatacatt ttattctata taatatactt catttatana tataataaac 120  
tccgttcact tgaancccn nannnnnttt ngnnaaatc cntntttttc ctttatttta 180  
acaaatatta taaaattact taaatataat tttcataact cattataaat aacaatatat 240  
actccgtaga aaatattatc gtttgacatt aatcttaagt tcaactcata caagtactgg 300  
caaaccctta tgaattctac tgaaatattc cctaaggcct tcccacatga ttacaaaagc 360

attgatgttc ttgaggggtga tggcaagtct cctggttcta tccgccacat aagttatggt 420  
gaaggttcac cacttgtgaa atcatccttt gagaagattg aggctgttga tgaggaaaag 480  
aaggtagtgt cgtacactat cattgatggg gaactcctcc agcactacaa aacattcaag 540  
ggagacaatt cagtgactcc aattggcgat ggatgcgagg tgaagtggag tgctgtgtac 600  
gaaaaggtta accatgatat ttctgat 627

<210> 5719  
<211> 447  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220073h02d1  
<400> 5719

gatactgtaa cattatatta gataaggtat ggtacaagta caaccatatt atttaataat 60  
agtccataat acatgcacag attaaaacat tagccattat taattaagag gcatgcatag 120  
aatagaacct ctctatgctg ttgcttgaac ataggcatcg acctctagga aattcttgac 180  
tgcaaaatct ttgacaaggg ttggatcaga aatatcatgg ctaacctttt cgtacacagc 240  
actccacttc acctcgcatc catcgccaat tggagtcact gaaatgtctc cttgaaatgt 300  
tttgtagtgc tggaggagtt ccccatcaat gatagtgtac gacactacct tcttttcctc 360  
atcaacagcc tcaatcttct caaaggatga ttccacaagt ggtgaacctt caccataact 420  
tatgtggcgg atagaaccag gagactt 447

<210> 5720  
<211> 564  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220073h03a1  
<400> 5720

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncnttttnn cnnntaccnn gnnncnncnc 120  
ccaancgggg gaacaaaaag gaggaagtg tgctaacaaa gaggccaaga gaagaagaac 180  
ccctagagaa caaagatagt acttatgaat tactagagtc cttatcaaag aggcacaggt 240

catacaacca cataactctcc ctccttgaat cagaggaaga tgactccaca caagacctat 300  
 cttctctcat cacttccttc caacaagaaa tcaccaattg tgcctctgat tcggacaccc 360  
 ttttgaacca acacagcctc accaacacca ccaccaccac cacaacaaat agtaatttag 420  
 aggattgttc atcctcaaca actaaatatt ctagtgacat gatggaggaa catgatgaca 480  
 aagaaggggt catgagacac cttcttgaag cttctgatga tgaacttggg attccaaata 540  
 aagaggatga atcactcgat cttg 564

<210> 5721  
 <211> 372  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220073h03d1  
 <400> 5721

aaaaaagaag gaattttcat ttacccttaa aagtcaataa aattaacata tgaaatagtt 60  
 taaaagatca ttactagcta attaattact tggggtaagg ggaatatata agcctagctg 120  
 ctttttttac agatcgacat attgccaaagt agtaaccaac cacacataaa cgtcccatga 180  
 ttttaattta caaaaagagg ggacaaaaaa atgaaaaaat aaaaactagt aaatttttca 240  
 tttttttcct ccttgatttt catcttgaac gcatgaaaac tatgggtttt cactttctat 300  
 cccccaccaa aaaaaaaaaa cttgagaaaag agttgagact gcaaaagatc ataggagtta 360  
 gcagctttat tt 372

<210> 5722  
 <211> 568  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220073h04a1  
 <400> 5722

ggaaaacgcg cggtcgtttc gagaccagct ttgantttnc atgcaccnt ccttgagctt 60  
 ngnatttttt tcgtgagctt gatgagaagg aaataaattt tttaccaatg cctggacaag 120  
 ttgatttcat tgggggtggg tctccatgcc agggtttctc tgggatgaat aggtttaacc 180



agagctgttg gagtaaagtc cagtgcgaga tgatattggc attcttatcc ttgctgatt 240  
 atttccggcc aaggatatttc ttgttgagaa atgtgaggaa ctttgtgtct ttcagtaaag 300  
 gacagacatt tcgtttaact ttggcttcac ttcttgagat gggttatcag gtgaggtttg 360  
 gtattcttga ggctggagca tttggggttt cttactcaag agacagggca ttcatatggg 420  
 ctgcttctcc tgaggatgtg ctgcctgaat ggccagaacc agtgcacgtc ttttcggccc 480  
 ctgagttgaa gatcacatta tcagaaaatg tccagtgtgc tgctgtgcgc actactgcaa 540  
 atggtgctac tttacgtgca ataactgt 568

<210> 5723  
 <211> 482  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220073h04d1  
 <400> 5723

gcaataacaa atattcataa cagggttaaaa aaaattgggtc tcaattttca actacacatt 60  
 gggaggtaat caattcccaa ccatttcttt cataaacagc caaaatacca tctaatacag 120  
 aaaatcctag ttgatagaaa atgagcatca tccattcaat tccttgggtg aggaaagtta 180  
 aacaaggaat tagcctcaac aaatgaccaa tggatatcac tatatacaag ggtttctagt 240  
 ttttgaacc cggaatgatg atttgcaata tcttgggtgac tgttatgaat acaataagca 300  
 tgacctaatg tagaaggccc atcttctaag tggagctctt actgtccact gcttccttga 360  
 gctttctccc caatgctgat gctagaggag gaggcacagc attaccaatc tgccggtgct 420  
 tgtgtatgat attgccagca aattcatagc tatctgggaa gccttgagac cgagcacatt 480  
 ca 482

<210> 5724  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220073h05a1  
 <400> 5724

ctgaagttag ataccgcatc atatttctcc aggaactcca ccaccgcacc tgaaaacggt 60

gattaccatg tctagcgctc cgaacaacac cctcgctata acagaaatgg ctggagcagc 120  
gcatattgta gcaaatcatg atggacttcg acggcagatg atcggaacct catgtctgtc 180  
gctacactat cactgttgtc actgcatagg ctgctgggat gaacttgtgc tcacttgcac 240  
acgacatgaa atgaattatc ccccgatgat gtcgtgagga ggatggagac tctatatggt 300  
tgtacgcggg aacacgagaa gtccatcatg ctggatcgtg tcaagaccgt tatggagtaa 360  
cactttccgg actaccactc agctgatgct ccgatggtag agttctaccc gacgacaggg 420  
gtcagtatcc g 431

<210> 5725  
<211> 377  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220073h05d1  
<400> 5725

agaacaatg attcgcataa ttgaaataa atattatcta tgtaaactga taaaagaatg 60  
caaggtagca tctctttaga aagaaagttt aattgaagaa attcactaaa ttacagtcaa 120  
acaccatgca aatctaaact acagtcttca gtgacagaaa gcacacgcat tgaataaaaag 180  
gctcaciaaag ccttatgggtg attgtgctag agaccaattc catgttctat tacaacatcc 240  
taatggtaa ctatcaagag agagactagc cttttcgtat gcactccaca aaatccttgg 300  
ccaatacctg ctatgcatag ttacctcag cagctcgggc agaatccacc ttttgtacct 360  
ctccatcttc agggatg 377

<210> 5726  
<211> 473  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220073h06a1  
<400> 5726

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nacgggcaag gaaaagaaaa ccaccaactt tcatggacaa caccaaagaa agctaaaacg 120  
gggttaccat tactagcgtt gccacaagc cccacgctat gaaaaaatgg tggaagcatt 180

gaataatgag gcgaagctaa acgtgtaatt gacggtagag gagcggaacc tactgtctgt 240  
 tgggtacaag aacttggtgg gtgctccttg ggcttcgtgg aggattcttt cctcgattga 300  
 acagaaagag aaatctaaag ggaacgaaga tagcgtgaac aggatagaag gcacgtatgc 360  
 tgaacgcgga atcacgagta agaccaatat gtgcaatgca tgcacgactg tgatggatga 420  
 acaccttatg gcctatagct catctgatga acctaccgtc gattttttaca aaa 473

<210> 5727  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220073h06d1

<400> 5727

ataaacaatg attcgcataa tttgaaataa atattatcta tgtaaactga taaaagaatg 60  
 caaggttgca tcctcttaga aagaaagtca aaatgaagaa attcactaaa ttacagtcaa 120  
 acaccatgca aatctcaact ccagtctcca gtaacagaaa gcacacgcat agaataaaaag 180  
 gctcacaaaag ccttatggag attttctaga gaccaattcc atgttctatt acaacatcct 240  
 aatggtaaac tatcaagaga gagactagcc ttctcgtatg cactccacaa attccttggc 300  
 caatacctgc tatgcatcgt cacctccagc agctcgggca gaatccacct tttgttcctc 360  
 tccatcttca gggatgtcag aagtccacaa ggtgagaatg tccctcaaaa gctgcgtaat 420  
 tagg 424

<210> 5728  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220073h07a1

<400> 5728

gagatcacta atgagctcaa ccagttttgt cagatttctg agaccaatgt gtataagggg 60  
 gtccagaaca ggcgggctcg ctccaaaaga aagcagcaga atgtggcgcc tagtgctaata 120  
 gttgaatcag aagtggagac tgaggttgat tctaaggata agaagacaaa gccggacgaa 180  
 tttcaggccc ctcttagcgt ttctgctggg cctgctgata atttaggctt ccagaacctat 240

gatagttcgc agtacttgaa tccagaatcc aacaaaccag attctgtctt cccgtctgat 300  
 gggaccagac attttcatca tgtgcctgct tttgatgggc tgctatcaaa ctcaaggagc 360  
 aactatctta ctggaaaact ggaaacacct gagaactacg aattatacca gccagcaggt 420  
 gactacaaca ttgcaggtca acctccaatt tgaccgcaca ttcttgacgt gacaccagc 479

<210> 5729  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220073h07d1

<400> 5729

atcaaagagt aagactagta cataattatt atgaatagaa tttagtgttg taaactatga 60  
 taatagtagt tacttttttt tcgttttgct gattaaatta ggcactaggt aattcatttt 120  
 aaccgtaagc ctaaaaaaat gccccttttt ttgccttcag ttgcatgtgc ctatgatgac 180  
 aaatcagaag cttagcaata aaattacaac tctacaaaag ttggtttcac cttttggcaa 240  
 ggggagtcatt cattgctaac ccctaattgga caaaaactag atccttcatt tcttactagc 300  
 ataataaaca cctttaagaa agtgtggcct tggctttctg aatatcctgc agactgacac 360  
 cgcacagtt cttcaggagg cttctcttta tatcaagctt cttcaagcac aaatccgggt 420  
 acatatttga tactcttatt ttgttctgg 449

<210> 5730  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220073h08a1

<400> 5730

ggggacctgc gtgctcctcc gangccaact tnannttttn gngaannncn nnnanntnan 60  
 aatananntn gaggaaaant ganatntaan aaaacatttt tggntgttat tttgaggacc 120  
 aatgttgatt tgtgtggtn taagatcagg cgcggcctta ctacaaacga gagcaacact 180  
 aactgccgta ccataatgct gatgttttat tacaagtgga gactgtggca ggctctagcg 240

ataggaagac atagcctcac taatctcagg ccacagctag cgcacactct tggactgctg 300  
gtattaaagg cttacaaatc tcagagcctt tgctttactt gggactgaa tgcaccatgc 360  
ctgactgtgc ttttccatct gatgggaccg gacatgtgta ctctgaccct ggttcttctg 420  
ctctgttata aaactaacag ggcttctg 448

<210> 5731  
<211> 339  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220073h08d1  
<400> 5731

atcaaagagt aagactagtc cataattatt atgaatagaa tttagtgttg taaactatga 60  
taatagtagt tacttttttt tcgttttgct gattaaatta ggcactaggt aattcatttt 120  
aaccgtaagc ctaaaaaaat gccctttttt ttgccttcag ttgcatgtgc ctatgaggac 180  
aaatcagaag cttagcaata aaattacaac tctacaaaag ttgggtttcac cttttggcaa 240  
ggggagtcatt cattggtaac ccctaattga caaaaactag atccttcatt tcttactagc 300  
ataataaaca cctttaagaa agtgtggcct tggctttct 339

<210> 5732  
<211> 672  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220073h09a1  
<400> 5732

aaaaagaaaa aaaaaaaaaa agaaagaaga aaaaaaaaaag aacaaaaaaaa aaaagagaaa 60  
aaaaaaaaaa aaagaaaaaa aaaacaacta cctctgannn cagagagAAC gtningaacac 120  
aaaannnaan aaaaanaaaa aannnaaaaa annaaaaaaaa naaannnaaaa aaaaaaaaaa 180  
aaagaaaaaa aaannnaaaa caaaaaagaa aaaagagaaa aaaaaggagg aaaagaaaaa 240  
aaaaaagaga aaaaaaggaa gagaaaaaga aaaaaaaaga aaaaaaaaaa aagacanaga 300  
aaaaacgaaa aaaaaacaan gaaaaaaaaa aaaaggaaaa gaaaaaccac aagaaaacaa 360  
caaaaacaaa aaaaaaaaaag agaagggggg gaaaaaagaa aaaaaggaga cgaaaacaaa 420

aaaaaaagga aaaaaagaaa aagaaaaaaa aaaagaggaa ncaaaaaaag aaaaggaaga 480  
 aacagaacga aagaacaaaa cgaaagaaaa aacaagaaaa aaaaaaatga aaaagaaaaa 540  
 aaaaagacag aaaaagaaaa tgaggggaca aaacaagaaa agcaaagaaa gaaaaaagaa 600  
 taaaagaaga aaaaaaatga aaaaaaaacc cangaaaaga aaaaaaaaaa aaaaaaaaag 660  
 gggagagaca gc 672

<210> 5733  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220073h09d1

<400> 5733

ataacataca aagcatatga cacaattacc tacatgtgta aacggtgctt acactataac 60  
 aacccgacca gggcactttc acaaagagaa acctcatagc gtatcactac tatgatatga 120  
 ccaacacctt tctatcacia gcaaaactct aatctcttaa taatctcctt cccaagggca 180  
 caacaataaa aaagttcaca ctataactaga ctgaggcatg cccttggttt ataatatcag 240  
 agcttatagc tgacaagatt gttcgttaacc ccaactacgg gaccaacagg a 291

<210> 5734  
 <211> 118  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220073h10a1

<400> 5734

gccctcacag tcacctgtgc tatattaagc gcgctcctac gcgctcgtgg caacagtgtg 60  
 catgcgttgc aaaccctaac tacctcattt ccatggtgtt acaaaagcac acggtcga 118

<210> 5735  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220073h10d1

<400> 5735

aggatacacac gcatatacta catttaccta gttgtgttga cgcggttaac attataacaa 60  
 cccgacatgg gcactttcac gaacgtaaac ctcatagtgt ctcacttcta tgatgtgacc 120  
 aactctgtgc attgacaagc aaatctttaa ggtcttcata ctctaaaccc ctagggcaca 180  
 gtcttgatat atttcacact ctattagaga gatgcatgca actgttttct aataccagag 240  
 ctatgagctg aaatgatcaa tagtaacccc aa 272

<210> 5736  
 <211> 579  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220073h11a1

<400> 5736  
 ggataaggca gagagagaaa aacaaacaaa caaagcggct tccaatggcc actctgcaat 60  
 tcaccttcac cgactcaacc acattgttca ggccttctct accttccacg cgaaccttct 120  
 ctcgaaaccg aagcctcatt gtcaaagcct cttcttcttc ttctgacgac ttctccaaaa 180  
 gcaggcgacg cttcatcgcc gaaaccgccg cactctcggt ctogctccct cagttagcgg 240  
 cgcgtgccga agacgcgctt tcggagtggg agagagtata cctccctatc gaccccgggc 300  
 tcgtgcttct cgacatcgct tttgtccccg acgatcccaa ccacggtttt cttctcgga 360  
 cgaggcaaac cattctggag acgaaagatg gaggaacac ttgggctccg cgttcgattc 420  
 cttctgctga agacgaagat ttcaactatc gcttcaattc catcagcttc aaaggggaagg 480  
 aagggtggat tgcgggaaaa cctgcgattc tgttgtacac ttncgatgcc ggagacaagt 540  
 gggagaggat acctcttagt gctgaacttt caggggata 579

<210> 5737  
 <211> 293  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220073h11d1  
 <400> 5737

gaccgaaaat tgagttttaa tttgaaagga accgggggaa accaatttca cattggcaat 60

aaaaatctct ttttacaaaa gggaaggggg ggaataaacc cccccccatt tttttccccc 120  
 ccccgggggg gggcgaattg atccccctact gttccccatt taaaagaaag gaaaaccggg 180  
 ggggtgtaaat cggcccaaaa atggccttgg gggaccccc ccgggggaat ttcccccttt 240  
 tccaaggggg caaaaaaaaa atccattttt tccccagaga aatttctttt ttt 293

<210> 5738  
 <211> 601  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220073h12a1  
  
 <400> 5738

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 ttttcttgcg ttgcaaggct ggggctagcc aattacatgg tagtttgtct tgggtgtggc 120  
 cccgcattctt acaatgtgag catcgaaggt tcatcacgga ggtgctggca caacagctgc 180  
 ggggctcaaa gctgcttgcc caacaaccat agttcctttt ttcggcgatc aaccattttg 240  
 ggggtgagaga gtacatgcta gaggagtggg tctccacct atcccagttg atgagttttc 300  
 acttcccaag ttggttgatg caataaaaact tatgctggat cccaaggtaa aggaacgtgc 360  
 aatcgaactt gcaaaggcca tggaaaatga ggatggagtg acaggagctg tgaaagcatt 420  
 ttttaagcag cttcctcaaa aaaaatcaga gtctgatgca gatccgcaac caactggtn 480  
 tttctctgta agaagatgtt ttggntgttc ctgattcaaa tgcagtntat taaaccccca 540  
 ctctttggta attaatagtg taaatcacia atagttactg catctatagg atgtgctgga 600  
 c 601

<210> 5739  
 <211> 495  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220073h12d1  
  
 <400> 5739

tttttttttt tttttttttt taaaatcaac agtaaattta catacaaact gaatctcaag 60



ttaaataagta caaataacaag catgcatgaa attataacaat cacatgacag ggtgacaagt 120  
 ccagcacatt ctatagatgc agtaactatt tgtgatttac actattaatt accaaaaagt 180  
 ggggtttaat aaactgcatt tgaatcagga acaacaaaaa cattttctta cagagaaaaa 240  
 accagttggt tgcggatctg catcagactc tgattttttt tgaggaagct gcttaaaaaa 300  
 tgctttcaca gctcctgtca ctccatcctc attttccatg gcctttgcaa gttcgattgc 360  
 acgttccttt accttgggat ccagcataag ttttattgca tcaaccaact tgggaagtga 420  
 aaactcatca actgggatag gtggaggacc aactcctnta gcatgtactc tattacccca 480  
 aatggttgat cgccg 495

<210> 5740  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220075a01a1  
 <400> 5740

gtagatttag cagagtagag atagtgtgag gctagtacct ggagagaaaa gaggagacta 60  
 taatacatgg ggaagcaggg tctaaacacg gaggagcaac aatctgaggc accgactgca 120  
 tccaagtttc cgtagatctt tagggaagcc acagaggctt caacggaggc gctggtttta 180  
 gcagagggtc ttctcggaga gtacctcacc atgcccgatt ccgattacag cttgcttaaa 240  
 ctccctcgta ccctagaaga ccttcaactc ctacgagatg accttgagag ctatacaagt 300  
 gactacactg cacaagtcta ggaggggtac tgcgtggttt atattttcat gcagactttc 360  
 atgattccag agactgtggt catgtcattg cttgctggag cactc 405

<210> 5741  
 <211> 507  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220075a01d1  
 <400> 5741

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 caccggggac cttttttcat tccaaaataa ttttatttca taccocgggg gcaagactga 120

acaacaccta ggttttaagc gaaaaattga aaatatgggc cttgtgacc attccccaaa 180  
gctgaaaaaa ggggattcca atttagcttc catccctttg agcaagcttt gccctcaaaa 240  
tttttaaaag gttggggggg ggacaatcgg aatattccaa ggggggaagg acccctctcc 300  
gggccaaatt tgggtggggg ggaattccgt cagtttgga aacccttca aagaaaatgc 360  
atttaaaggg gccttctttc tgctacaatt ggctgaaaaa gccacagtcc tctaaaaatg 420  
ggttgctga atatttacct ttcataatta gctaacgaat tatttggtag caacggggct 480  
gaaaattaat gaagcccgaa cttacat 507

<210> 5742  
<211> 355  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220075a02a1

<400> 5742

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tccaatcctt caattcaata atttctctta aaagnagcct tctctgctga accctgaggt 120  
gaccttcacc cttncaatcc acccaattgt aatgcctaatt aaccggcgcg cctccacctg 180  
aacatcatgc tctgtctcat acctcagcat caacatgcac tccgaagtaa gcttgccggc 240  
gaacatcaag gacgaggccc gccggcgccc cgggggggat aacgacttca cggtgagaga 300  
cgtgccttg aacgccgggt tagactcggc ggaaacctac tcgctcgagg aaatc 355

<210> 5743  
<211> 329  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220075a02d1

<400> 5743

ccaaaaaata tccaaagcat atattggatt ttattcatta taaaatgggc ttcacaacct 60  
cttgcaagcg cagcaggttg caaaccaaaa ggcattcatg ggatatcatt caacgacaga 120  
gacaaaagca gtgccatata actgtttaaa accaaagtaa ttaatatctc ataaacaatc 180  
caaacgaaaa aaaaggggat tgacacttcg tttttcttat gggacaaaat gcgcggaaac 240

ttggcttccg ttgttttcct tgggcaattg cgaagggcat tttcttgcta taacaacgtt 300  
 ttttattggc ttatattcctt caaaaataa 329

<210> 5744  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220075a03d1

<400> 5744

ggggaaaaaa aaccttattt attggagtct ggtggggggg gccctcaaag gggctttgaa 60  
 cattttttgt aattaccgga ccctcaaata tcaatggtaa aaggggggat aaataattga 120  
 ataaaccggc caataatttt atctggaatg gcaaaccctg gccgaatcac ccctggactg 180  
 ggaacagtta cttttccttg gcctacaggg gcttcccaaa ctggaacaat ttaaccaccc 240  
 gttttttttt ttttgggaca attaacccca tgccgctttt ttaccggccc aattttgata 300  
 ttctaccac tggaagccct ctaagggctc gggagggaaa ccc 343

<210> 5745  
 <211> 534  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220075a04d1

<400> 5745

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 tttctcaaga tctaaaatac atagagcaca gttttttttt ttccaaacta aagaaaaaca 120  
 gcaaactttt gaatcacttt cacgatgtgt agttgtactt gtacacaata ataatttcta 180  
 acaacataaa taatgacgag tctttatgtg acaagagata tgccttgtag aattaatgca 240  
 tcagctagaa cttgggttagc agcttggtgaa ggatggacac tgtcccaaaa cacatactgt 300  
 gtggcattag aacaagttcc tgggtgattt ggattacaca acaaggatgt tgtctctaca 360  
 gtcccggtac cacagcatcc tctgtttgcc tccacaaaac cagattttga aggggattga 420  
 acaaggtcat agagaggctt gtaaagtgcg aaaaccgcaa tcttaagacc aggaagttgc 480  
 ttttgaagac tcgttgacgc tgagttgagc ttcttggtta atccttgagc atca 534

<210> 5746  
<211> 509  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075a05a1

<400> 5746

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actcgctga gttggccttg gattgcattc ttgagaggct tccccctct tcgctgagtc 120  
gaatcgccgc cgtgtgccgc acctgtggg agaggagtga gagtgatcac cttagggaga 180  
tgcacatgag gaagaagagg ggtagagtta ttggccctgc tgcttatagg gagaggaaat 240  
ggcatgtagc ttccaaaagg aaagtagggg gtcttaaaca tggcaggcaa aagagggaga 300  
tgagatttat gtctcttcat tggcctttcc aaaggattag accaaagggt gaagcaaatt 360  
ataataaccc aaagctgagg agctctctgc ctgtagactc agacatgaac taggatcttg 420  
ctctagagtc tggcaatttt tggttccctg ctcaagtcta ttaccgagag aatggncatg 480  
ttggattcat gctatcttgc tatgatgct 509

<210> 5747  
<211> 434  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075a05d1

<400> 5747

agcctctgat gctcgtttcc ctctatttt tcctttccac aacagaatac aatacacata 60  
aacataaaaa taaacaaatt gttaatcaga gaccagaaaa agaaagaaat agaaaaaaag 120  
aaccacgcaa aatgaaaaat aatgttgtaa ctctcagct ctccaccagtc tcttcgtctc 180  
ttttgagtct tttatctcca tctacatgca cacatgcaca tgcagtactt aactaatagt 240  
agtaatttct ctctatgagt atcaccacaa ccaattcacc tcaacacaca acagaaacac 300  
aatggttgga tttgggttac gttgtctttg aatattctaa cccaccact ggtgcactgc 360  
aacaccctcg tcccttaact tgccatacaa agccaagcac tcccaatagg cccttcggct 420

ggaattccct gagg

434

<210> 5748  
<211> 714  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075a06a1  
  
<400> 5748

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nnnnnccnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
ttttttntt tntttttttt tttttttttn tgggtggtttt tntttttttn tntttttntt 180  
tttttnnttt tntttttttt tngtttggtt ctntttttta ttattaacag aaccatacaa 240  
tattattgca gattaaagaa atggaggtgc agcggatgag ggagttattg aaactttggt 300  
caacgttgca aattaaccgc gttgccctag tgggtggaaa ccacaccgcc gccagatttt 360  
gcactcgta agtccccgtt tgcctcttcc cctctctttg tccctccac aatatctttt 420  
ttcttcttct acctacacag aaaccaaaca agtcattact tataatataa tccacaatca 480  
caaaacaaat ttctttctat tctctttcta attatccaac atgatgaaaa cacgttatcg 540  
cttgccgctt ttggcattct tgcattcgc ttccttcata ttcataacga gatcatcctt 600  
gcttgaaaaa atctcttcca ccattgcctga atattccttc aacaccgacc aggttctgtc 660  
aattctattt cgcgaatgac caacaaccaa gagaaaatgt tttcctcgca acaa 714

<210> 5749  
<211> 548  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075a06d1  
  
<400> 5749

gaaaaagaac caaccatcta agtagcattc aatgaacaaa gcaacaaact tcaacgatag 60  
ttcagtaata gttcgttcaa tgattttaca atccgaatca atcaatcact tcatagattg 120  
aatgaccctt gtagttagta tacatagtga taaagtaata tattatataa aaatagcata 180

ccaattcttc ttccttgctg gctgaataaa atccagggtt tccaactggc tctgacaaaa 240  
tagagacagg gaaaacctga tgactgttga ggctgctcaa atcatggcta attgctaata 300  
ctatatttgt tatatacact aataggctaa ttgctactgg taccaccacc tttgtagatg 360  
tccttcagag ctccatcttc aactgatttg aatgcagaga tactgaattt gccgatgagt 420  
cataactcca gagtgagttt tctggagtca tgttagtttt tgtcttcttc cctcccccaa 480  
ggggttggtg gaatgcatca aactgccacg gntgctgata ttgttgtctg tttccgctct 540  
gtgggatt 548

<210> 5750  
<211> 685  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075a07a1  
<400> 5750

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tnnnantnnc cncnntnnn nnnnnnnnn nnnnnnnnn nnnnctnnn ttntttntnt 120  
ttnttttttn nntttttctt tttttttttt ttntttttt ttntttnttt tttttttttt 180  
ttttggggtg tttttttttt gtgtttggtt ttcttgtttt ttctttgggt ttgttttttt 240  
ttttgttttc tctttttttc tctcttttct tttttgggaa caatgactat cttcccaccc 300  
ttttcaaggc tgattaccct ccttatggga gggactttgt taaccaccaa cctactggga 360  
ggttttgcaa tggcaaatta gctactgatt tctactgctga cacattgggt ttcaagacct 420  
atgctccagc atatcttagc ccacatgcat cagggaaaaa cctccttatt ggagcaaact 480  
ttgcttcagc tgcactctgt tatgatgaaa atgctgctac tttgaatcac gcgattccgt 540  
tgtcccaaca gttgagttat ttcaaggaat accaaggcaa gcttgcccat gtagcttgcc 600  
agtaaaaaag cagcctcatc ataaagattc gttgtatgtg ctcaagtgtg gaagcagtga 660  
ctttgtgcaa aattattatg tcaat 685

<210> 5751  
<211> 457  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220075a07d1

<400> 5751

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tacaactttg atatttctgc cttccggaa gtgaagaacg ttaaagatct atacgtacac 120  
attaattatg atatcaatat cataattgat attgagaaat attaaaaggg cataatatga 180  
taggaataga gggggcacac ggcaagagga atttttttta aacttaaagtg tagccattct 240  
tgatcatcca ttccaaactc caatgattat tgacgttctt gagtgtccaa taacaccacc 300  
caaagtgtgg tcgccccaaa acatctaatt cagccttgac aaatctttga taatcctttt 360  
tgggagcccc ttcaaccttc cactcagcag tccattcacc cacgaaagtg agaggaccat 420  
ctacggttgt aatattatcc aactgtgatg aacggac 457

<210> 5752

<211> 675

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220075a08a1

<400> 5752

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tagattatta taaccaacc aaanchaagn nnccggctga gtcgaaacaa ttnnnnttnn 120  
nnnnnncccn nnnnnnnntn ntnnnntnnnn tttttttttn tttttttttt tttttttttt 180  
nttttttttt tttgggggtt gttgatattg tttgaatttt aaaacgggga aaaggagaag 240  
agaatctttt ggacattttc cccctacaa aaagatctaa tgaagccttc tctgagcatt 300  
tcaccaagga aggactggtg gccttggtg agtataatga aaagaaaaat tttgaggtga 360  
aacttaagga aatgaagtct tctttaacag cacagttaac agacgaggct gatacatctg 420  
aagtcattga gactgtgaag ctgcgagtta gagatgctaa attgccggac attgaggtgg 480  
tgcggatctt gtgggatggt ttaatggatg ctgttcagtg gtctggaaaa aatcagcaac 540  
agaatgccaa tgcagccctt cgtcaggtaa aaacttgggc agaattgttg aatacattct 600  
gcaccactgg gaaacttgag ctggaactga tgtacaaagt acagatgcaa tgctatgagg 660

atgctaaaact gatga

675

<210> 5753  
<211> 619  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075a09a1  
  
<400> 5753

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aacacaaaaa atatacaaaa acaaatgtaa atacnnnnn annnnccggg cgactcgaaa 120  
caatanaatt tnnngcccn cccccnnnnn nnaaaaaann naanaaaaaa aaaaaaaann 180  
nnaaaattaa aaaaaaaatt ttgtagtggt cggaacaag agaactttgt tcgaagagca 240  
tcccccttct ccgccagtat ccaagaggct ccgctgttcc tctacccta ttcgcctctc 300  
tctccccctc ctcatcgacc accttcgctc tctcttcct catatggatg accaggacct 360  
cgagagagcg ctccaagaat gtggcaatga cctagatgct gccatcaaga gcctccacgg 420  
cctctgtatg ggatctgctg atgataattc tcaaattgct ccacaacctg acctacctaa 480  
tgtcgtccac acaggcacgt tggaagagaa tgacgatgct tctgctgctg gggatcagcc 540  
cgcttacggc aattttcccg ccgatggagc agaatggatt gacttgtttg atagagagat 600  
gacgtgtgct actagtgat 619

<210> 5754  
<211> 481  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220075a09d1  
  
<400> 5754

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actaatatat acagatggat ctgtttatgc ttttataaaa aacacatgtt acaaaatgtg 120  
aattaaaagt taaaagaata atgaaatttt cagacatgca caagcctccc ctgtagaaac 180  
ttctaacctc tatctacatt tactattctg gattcattgg attagcacca caaaatgtta 240  
ccaagatcat ggtaaaccag caaatgaaca tagtattctg gtttcacaa tcaaatacgt 300



ttattctggt ccccgcaatc aaatccaatg gaaaggatgc atagtcctta cgtgtgacat 360  
gaaccatgag actgatatgt gggcaaggcg aaaaccaccc aatcagattt ttttattagg 420  
aaacaaatgg tgaccacagt ccagatgtga aatctatatt cactttcatt ttccttctac 480  
a 481

<210> 5755  
<211> 599  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075a10a1

<400> 5755

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nnnnnnnnnn cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnntn tntttnnnnn nnnnnnnntn nnnnnnnntt nnnnnntntt 180  
nggtgggggt ttttttttgt tttntttntt ttttttttnn tttttttntt tgtttttttt 240  
ttttcttggt gttttcagca acaaaacaaa ggggtgctgtg gaacttccac caaatgtctc 300  
ggttccagca gtgttggtat ttggagattc gatcatggac actggcaaca acaacaacaa 360  
cttgataaca tcagctcggt gcaacttctc accatatggc caagatttta tgggagggat 420  
ccctactggc cgattttgca atggaaaggt tccatcagac attctagttg aagaattagg 480  
cataaaagag tttctacccg catacttgga tccaaatctg cagcttagtg aattagccca 540  
ccgtgtgtgc tttgcatcgg gtggttccgg atacgatcct ttgacatcac anaccgcga 599

<210> 5756  
<211> 488  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075a10d1

<400> 5756

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cattgaagca tgaatatgta cagaacaatg gaaccaaacg agaaaaacta cataacccaa 120

aagagctgaa gcctaaaagc agagtcagca ccatcatatt aagttgtgta ctcttaacca 180  
 cttagaaaag gggttttaaaa aaaagttggg ctatgattaa atcagtcaag tttgtagct 240  
 ccatgtggcc caattagctt cacttccaac acgaggcatc acttgatct ttgtctgaga 300  
 gtcaacattg aagttagccc cacacataaa tccctcgtg tcaatcctag gcattgcttt 360  
 catcttcttt gttggatgtt caatgctcat gagaccatgc tcactatgaa acatacacc 420  
 attcgaaat ggtgcaaag atttagcaca gcttgctttt ataagctcca gattttcaga 480  
 aataacta 488

<210> 5757  
 <211> 604  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220075a11a1  
 <400> 5757

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 ncnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
 nntntttttt nntntntnt tntttttttt tttttttttg ggggggttgt tttttttttt 180  
 tttntttttt tttttttttt tntttttgtt ttttttacat tgaaggatcc ccggtcaaaa 240  
 gatgcatctc aaaggtatca tgctcatcaa tataactaatg gcaccgatg tgatcttaca 300  
 aataagccac gagagaccga ggtgagggtt gtatgctctg aaccgagagc aatgattagt 360  
 tcaatcacag agatttcac ttgcaagtat gcacttacag tgcaatgtcc gcagctatgc 420  
 aagcacccat tatttcaaga ggagagacca gtatggcata ccatcgactg taatgtgctt 480  
 ccaaaagatc acgtggatgc caaagtgaga cgacaaaacg aaaatacgga gattgttata 540  
 gtgaaagact tcgaaaatag tgacttagag tcagaacaat gatgtcaata tacataatga 600  
 gaat 604

<210> 5758  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220075a11d1

<400> 5758

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attccgaata catcgattgt catctctcta aagcgtaaaa acagcctgtt ggcaaccaag 120  
ctaccatgga tataggtatg caggcatata actaacaatt tctaagccaa ggacaaggga 180  
ctgctcttta cagcaataat tgaaaaagca aatgaagcct ataaaggtag ggacattcat 240  
tgcccatgtc acttggaagc ctcttcatct tttgccgcct taggatgtat tcctttcaac 300  
ttaagaaatt gttacaccga tcagacccca tattacggaa aaatcactat ccacttatat 360  
cagcgcggtt caccctcatt ggacagaaat gcagagtga ctttctcaga ccaactgtcc 420  
agttaatccc agaaggattt gatctgtagg atacccataa ctct 464

<210> 5759

<211> 535

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220075a12a1

<400> 5759

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntt ttttttnntt tttntttntt 120  
tttttttttg ggggtttttt tttttttttt tttttttttt ntnttttttn tgaaaaataa 180  
ggttggctag aaagggccaa tggccacccc tattggaaaa gggcatcgat cgttaaactt 240  
tactctgaaa aaagagctca atttgtatgc caatgttoga ccttgctaca gtcttccagg 300  
ctacaaaact cgatatgata atgtcaatct aattacaatt cgagaaaata cggaaggcga 360  
gtacagtgga cttgaacatc acgttgtgag atgtgttgta aaaagtctca aaatcattac 420  
acgtcaatca agtttaacgg tagctgagta tgcttttcac tatgccaagg ctcatgtaag 480  
agagagggtt tctgccatac acaaagccaa tcttatgcac aagactgatt gactt 535

<210> 5760

<211> 350

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075a12d1

<400> 5760

ggaacaaatg aaacatcatc ggggggttttt ttttatttag cactatatta ttgacaaaaa 60  
atactaaaac ggcctaccaa ggggttatcaa tcaatgtgca ttgtgaaagg gtgtcctctc 120  
aatgccataa aactgcactg ggcaacgaat atttgaatcc ctgcccattc cttgtctttg 180  
gttggaaaat gtcacacaaa catgggtgag tttgccttta agctgaggga atccccattct 240  
ttccgattaa ttgggggaaat agatagaaaa ttgactgaaa ttcaaaaatc ataagcaaga 300  
atctcttgct gactccaacc aaaatttaaa gatgatcaat gattgctttt 350

<210> 5761

<211> 341

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075b01d1

<400> 5761

gggggggcaa tgcttccatt agggggcaatg aattatgctg atcaaaaatg tccaagttca 60  
tttttaagtt tcaagatccc ccataatcta aaaaggggtt tttgggtttt tcttttcttt 120  
tttatggaaa aatttttgtt taaaaataga gatgaatttt tgaccatttg ctatgggggg 180  
ggtctaattt ccacagggtc aggtttgaca aatgaaaatt cccctccct cctactgggg 240  
ggttctcccc cactatcttg gctatgttcc gcttgggggg gggcgccatg atcaactttt 300  
acaatgaaac ttgttggttg cgacccaac ggaacaact t 341

<210> 5762

<211> 529

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075b02d1

<400> 5762

cacttcttaa ctaaattgta tttcatggta acctcaaatt tcgttcatgg tgattaatgt 60  
acagagtaca gaaaaacata gataacgctg gtaagtaatg aacatgccaa gaaatttatg 120  
gcgattatgg aacaaatttt tgaaatggaa accatccagg acggttgata caaaaattgg 180

ttgagcatct aacaatctga caatgtttca attaaggcaa gctccaacac atgcaagcct 240  
cacattattg aaggcaaaaa gtatatcaca cttcagcagg aatccaggtc acggcagggg 300  
ggaggcttgg gctcacttaa caaagtagtg ttccctcctt caggtcact cttaattcgg 360  
cggggatttt ggggtgccgtg cggtggcttc tcaccctttc tcagcttttc tactatctca 420  
actactttct ctgggggttac atcttcaaag taattataag tatatccctc tgatccattt 480  
gaataatcag ccaactgtaat cataggagca ttcacacagc atcccatgc 529

<210> 5763  
<211> 482  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075b03d1

<400> 5763

cgaataaatg ttcacaactt cacataaagc tccaaaagta ccggaacaag gcaagttcca 60  
cgaaaagaac taccatacac agagcacgag gaaaaaaaaa acaacacaga caaagtaaca 120  
taacagtgca aacttctaata caataatctt ctcttctatc accatcttct tcagttgcct 180  
ctgcaccgac ttctcataa tctttctcca gggcagcaag atcttcacga gcctcagaga 240  
actctccctc ttccataccc tcaccaacat accaatgaac aaaagccctc ttggcataca 300  
tgagggtcaaa tttgtgggtg atgcgagaga agacctcaac accactgggtg gaattggaga 360  
tcatgcacac agccctctga accttggcaa gatcaccgcc aggaacaaca gttggaggct 420  
ggtaattgat tccacacttg aaaccagtgg ggcaccagtc aacaaattga atagtgcgct 480  
tg 482

<210> 5764  
<211> 307  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075b04d1

<400> 5764

tgtcgcgtgc gtcgattcng tggggcggtt tgtattttat tgccctgggg agctagccga 60  
gctagtctcc cgccgccctt gtgtgatccc tatgttttgg gtttttcttc cctttacatc 120

tattagtggg ctctgtgtct cttgttttta gggggggggc cccctccaaa aaaaaaaaaa 180  
 taattttctt gaggagggtt ccccccttta tctctacca aaaggggggtg agccccccct 240  
 ttccatccca taatccccct tttccggggg gggaaaacct ttgggccaac ataacctcaa 300  
 tctttttt 307

<210> 5765  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220075b05d1

<400> 5765

atcagaatca ttttggacca actttcctaa ttgctttaaa gcatattatt tctgcaaact 60  
 tgtacatatt cttattaaga cttgaatttt cataagaaca tcaatgcctc tcatcccttt 120  
 tggatgctat tcctttaaaa ggaaaatcat gtagttacat tacatctaac aaataatgaa 180  
 tcaaatttat ttttttcaat ttaagctttc agctgtctat cttagtagtc cttcagtgtg 240  
 aggtatatct gtgtcaggaa gccaaagtatt tcccaatgta aaattaagga ctgtgaagtt 300  
 ccaagcttga gtagcattca acagagagta accaggccat gttactctat tgctagtgtt 360  
 agaaccaggt ccatagttgt tgaattcacc ataaaagaga gtgtctaate caactgttcc 420  
 attccactct agccaccag caggttgaat tacatttcca tgtatgact 469

<210> 5766  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220075b06d1

<400> 5766

gttcttggaa catgagctca gattttctga caggcgagga aagggaaatc tacatgcaat 60  
 gcctcgccca cctggatagt tcgccatcct tcagtgtctc cttccttttag gtcactgatg 120  
 cacattgagg ctcccttagc aatctcaaaa gatggcccg ggctcaagcc aagcaaagt 180  
 actaaatcct tgctcggcca cggggaggga actacatgag cctccatctt ttggattgat 240  
 catgaacaag ttcttttcac aatcatatct ttcaagtgtg tggatatagaa tgggttcc 298

<210> 5767  
<211> 647  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075b07a1

<400> 5767

gtnaacctgc ctcatctctg aaaccccatn nnnnnntnt tnnnnnnann nnnnccnnt 60  
nnnnnnnnnn nnnntnnnn nntnnnnnnn nntnnnnnnn nnnnnnnnnn nnnntttttt 120  
ttttcnnttt nntnnnnntt tttttctttt tntttgtggg cngttttttt ttttcttnt 180  
ttttctttct ctccccctt cttctttttt ctttcccc tagtgctgat cagctaattg 240  
actttgatgc tgccaccctc atttogaaca tctgcatgat gccagaacta tatgatatta 300  
gtgctgcgcg ttgcaatgg atgctattgc cagacgatgc tttgaaattg acctcagtcg 360  
tgtgttcaaa cgttcattct ctactttgg aactgtcaga tgagcttctt ccgctatttc 420  
tctcatgggt tgtaaattg gagaatatac cgctagaacg gagtaaattgc acagtcattc 480  
ccgaatgcat caaaaaatgc cgctttttat ctatccttat tttgagtggg tgagatcgtc 540  
ttcaagaaat tagagggatt cctccagact tggaaagatt ctccgcaaca caatccccag 600  
acttgacttc ctcaaacata aacatgttgc tgaatcacga actgcat 647

<210> 5768  
<211> 107  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075b07d1

<400> 5768

cggtttctaa ttttgtcttn gtaggcacca ttttaatttt ttgacgagct gactaaccga 60  
gctgccggcc gccgcccttt ttttttttaa tcgttttcaa tttttga 107

<210> 5769  
<211> 625  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220075b08a1

<400> 5769

gananccgcg ctgtgcttcg ataccaatat tanntttatg cacacntccc ntannntnnn 60  
aatattnttt nagtttttat ttctttccaa tttattaatt tttttnttat aanaaacttt 120  
ctaacccaat gagggagata aaagtgcaga agctcgccct caatatctct gttggcgaga 180  
gtggagatcg tctcaccaga gcttccaagg tgttgaaca acttagtggc caaacccag 240  
tgttttccaa agcaaggtag actgttcgtt cctttgggat tagaagaaat gagaagattg 300  
catgctatgt cactgtcaga ggtgacaagg caatgcaact tttggagagt ggtttgaagg 360  
tgaaggaata tgaacttctc agaaggaact tcagtatac tggttgcttc ggctttggta 420  
ttcaggagca tattgatttg ggaatcaagt atgaccttc aactggtatt tatggaatgg 480  
atttctttgt tggtctggag cgacctggct atcgtgttg acgtcgccga agatgcaagt 540  
cccgtgttgg aattcagcac cgagtcacaa aggaggatgc tatgaagtgg ttccaggatga 600  
aggacgaggg agtgatcctt aacaa 625

<210> 5770

<211> 483

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220075b08d1

<400> 5770

ataacagact tttatctttt aacaacaggt cgggaccca ggtacatgt atttatttat 60  
tgctacaaca ggaaaccctt tccctgagca tgcacaagga agcttctata ctctttttgc 120  
ataacccag ctgccctggg cctcaaattg tgggtatatt aaggatcaag tttcagcctc 180  
cccatttcag cgtattcttt taagaccttt ttctttaccc ttggatgcag gcttgtccga 240  
acctgttttt attggcctct accgaacatt tttttgtaag gttaaaaccc tgttggacga 300  
gttttttagc tttcctgggc caagacccat ggatagccat tccctccacc ttgatggat 360  
tttttgacaa atagcatata tttctgcacc cttacaatt ataactgctt ttcttgcttt 420  
tcaggtcttc atctttgtac cttgtgtttt tgtccgttta cctttatgct gactatttta 480



<210> 5771  
 <211> 543  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220075b09a1  
  
 <400> 5771

cgcgtcgtct cctgaancca ataaaaanatt taanagaaaa ancncaaaaan tnnanaaaaat 60  
 tattttatat tattctatcc aatttctatt ttttttatcc attttacaca tctttattaa 120  
 cccggggggac ttttttctta aataaaccaa aaacccttgt gctattctca ttctctggaa 180  
 ttattatggc acataagaga ttcattcattg aggtcgagag agcgaatgag gccactgatg 240  
 gaaggccttc cagaggacct gtctatcgta gcctattcgc caaggatgga ttccctgctc 300  
 ccattcaagg tctagaatgt tgctgggacc tttttcgatt gtctggtgag aaatatccat 360  
 caaatccaat gcttggtcga caggaaattg aggatgggaa gccaggcaag tacaagtggc 420  
 taacatacaa agaagtatat gaccaggtga tgaacgatgg gaattctatc cgcagctgtg 480  
 gttatggaaa aggtgtaaaa agtgggtattt atggcgccaa ttctgcagaa tggattatga 540  
 gca 543

<210> 5772  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220075b09d1  
  
 <400> 5772

atggagggaa aatcggtaaa tttaattata tcataaccct ccaattgaca attatacagg 60  
 ctcttgacc actttcagct caaggcttat tgatgatcca tctatatact tttttataga 120  
 ttaaaaagac tgaacatgaa ccgttttagta tttgaataaa gataatgctt caatataaag 180  
 aggattgcct ctttaattatg ttgcaatgtc cagttaattg gtccattcct aaagagactg 240  
 tatgctatat tgaaataaaa tcttcaattc ttgtgtagta tactagtagt aaagggccat 300  
 ttatttagta attttactta taagtgaatt cactatagct ttacaatttt cttgcatgcc 360

tttgatagaa agattttatc cttctcatac cctctccaag agcagatgga tcagcagcga 420  
aagtaatacg aagccaatct tttaggccta ctgcagttcc tggaagaatg atcac 475

<210> 5773  
<211> 615  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075b10a1

<400> 5773

gaanaaactg catcatactt tngatgcccn ttgnnnnntt ntnnnnnna nannncncnn 60  
nnnnnnnnnn nnnnnnnnnt nnnnnnnnnn nnnntnnnnn nnnnnntttt tttttntn 120  
ntttntnnn ttttttttg gtggtttttt ttttttttn ttcctttttt tctttttttt 180  
ttttttttt ttttatgatg acacataaac ccggcgaccg agaaagaaga aaccgacttc 240  
aaggttcccg aaacgattac gctttgcgtt aacaactgcg gcgtcaccgg aaaccctgct 300  
acgaataaca tgtgtcagaa gtgcttcacc gccttcacca cctctaccgc caccacgtcc 360  
ggcgccggag gtgccggaat agcttctccg gctaccagat ccggcatctc cgcgcggtcca 420  
ctgaagagat cttttccga ggagccctcg ccggcggcgg atcctccgtc ttcagaccag 480  
acgaccccg cggaggcgaa gcgctggtg aaccgctgct ccggctgcag gaggaaggtc 540  
ggactcaccg gatttcggtg ccgatgcggc gagctcttct gcgccgagca ccggtactcc 600  
gaccgccacg actgc 615

<210> 5774  
<211> 351  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075b10d1

<400> 5774

aataataaca atctcattat ttccatggca cattaacatc aggtcaagaa agtaaaaagt 60  
gtgtatgtag taatttaata tggtagacag acctacacga caagtttcgt gagctgcaga 120  
attagaaaat aagcaatata gacaatgaac aaggaaactt agaaatatat gcaaaaactag 180

agattttctt tgtgtggttg catgggaata tcaggcatca agttgaagcc tccccattca 240  
 agcgtaatct cttgggacct ttttcttcac cttggatgca ggctgttccg atcctgtttt 300  
 cattggcctc taccgaacat cttttgtaag gtttaaaccg tgttcgacga g 351

<210> 5775  
 <211> 501  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220075b11a1  
 <400> 5775

ggggngactc cattatctct gaancccaat aaaanatttn nggggaaata cccaanaaga 60  
 acttanttca nntatgtttc attttatcat ttcacatact cctcttttta cctccccatt 120  
 tcaacacatc taactcgggg gtttttttaa attcataaac catattatat caataccacc 180  
 cctccttctc tacatgatga cacataaacc cccctgtcac tttgaatcgc ttgccacacc 240  
 ccctttgttg atttagaaat gctagatcta ttattcgcat aacacgtccg atccaaaacc 300  
 tggttacaca ataggaaaaa aaaccaccga cttcgttccc ataaacccta gtgctatttc 360  
 cctcccaatt tcttaacact gattgtaatt tgcaaattgt acagctagaa ttttgtttct 420  
 cttcttcggt taattatctg tacttttttt cgcatacctt ttattttaca attctctttg 480  
 ctggctttgc aaagtctgta c 501

<210> 5776  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220075b11d1  
 <400> 5776

aacaaagcct tattcccctt cttaacatta tcacaactct gttgctagaa aaaagagagc 60  
 aattcgtttg tggactaatg ggtatccac aagcctcaca ataatacaga tatagtgaat 120  
 tcccacacat agatgtaaat tccctttcta aagggaaaaa aaataggggg aatcaccaac 180  
 ttctatgtga tctactatct attattattt ttatatacta tgatttggct caattcttct 240  
 ggatcctact cctcaaaaaa gttgagctct accctccaaa gatgctacac tatttacaga 300

agcagatttg gcatctcctt tgcagttcat agaaccaaga actcgcttat tatcacgata 360  
atgaccaaag ttgtttttga ccagagagac gatttacaag tctgtctaga gcttccttca 420  
tcaccagtgt tgacaaactt cccttgcttc tgtgacgctc atccatattc tttga 475

<210> 5777  
<211> 650  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075b12a1  
<400> 5777

cctaaaaaga caaatatata tagtaataat ataaataagc gagccaaaaa ccaacaaaaa 60  
atatataata caaaaaacta tcaataaaat acctacaaaa ttntaatagn nnnntcgcn 120  
gaaggtaaga ntnccaaaan nnnntnnnnn nnnnnccnnn nnnnnnnnnn aaaaaaana 180  
anaaaaaaaa aaaanaaana aaaattatta aaaaaaaaaa aattaaaaaa aantataagg 240  
ggtaaaaaaa taccggcggg gatacacctc cgagccggag ccggagcgca aggtggccga 300  
tataggtgcc ggcgggcgga tcgggcaacc cctctccctt ctcatgaagc tcaaccccct 360  
cgtgtccagc ctctccctct acgatatagc cggaactacc ggtgtcgccg ccgatgtcag 420  
ccacatcaac accggatctg aggtagtggg gtaccaaggt gacgaagagc tcggaaaagc 480  
tttggagggt gcaaatgatg atataattcc tgctggtgtg cccagaaaagc ctggaatgac 540  
tcgtgatgat ctttttaaca tcaatgctgg catagataag aactgtgtga ctgctattgc 600  
taagtactgc cctcatgccc ttgttaacat gataagcaat cctgtgaact 650

<210> 5778  
<211> 511  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220075b12d1  
<400> 5778

gaagggtaca acaccctgca attacattac gtgaaaccat acacagttaa aagggaccat 60  
tattaatgga atggccaaaa cctaaacccg gttataagat cggtgaatct ctttagcaac 120

aaaaagctct cagacttaaa ttattaaatc atggcggtata cctactctaa ataaaacaac 180  
 aaagtcgcca caccactgcc ggcaacaata caacaatggg tctgagattg caaaatttga 240  
 tttggttctt gaaggaataa cattaacatt agcctaccag acacgtatgt gataacatgt 300  
 tcaattactg gttggcaaat ttgattccct tctcaattga tgatttgagt tcaggcttaa 360  
 ggctttcgag gccttggtgc tcaaaatctg agagaggtcc taagcccaaa acttctcca 420  
 ctccattctt cccaagcctc accttggaag caaagtaggg aagttcagta acagtggatt 480  
 gcacgaatga gcactccaca acatctggga c 511

<210> 5779  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220075c01a1

<400> 5779

gaggagcagt tatttttcaa agagacctct actgtctcct tcttctcct ttcaaattta 60  
 gatttttagtc ccaactaattt gtcacagtct gcatttttta aaccactctc atctaaattg 120  
 aggaggttca gttactttct ctaccatgat cttccttcac ttcttttctc attaccacta 180  
 ctctttatat ccataaccag gagctttttc atcaagttta ataactcgta ccttttattt 240  
 tttctccctt tggcttgcaa aacctgcttc tactctaaag cttatatctt tacctccaat 300  
 gaattcagta tgagccatca agttatagat atgtttgaca tatttttcgg tttggccaaa 360  
 gcttctaat gtaagatggc gatcaaacga gcccg 395

<210> 5780  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220075c01d1

<400> 5780

aaaacaaaaa aaaatgagaa atgataattg atcctcaata aattgaatac aactctgaat 60  
 tgaaaatcat gatgcccttc ctatgttact attgtaaaga aaaacactat tttggggcaa 120  
 taaataaagt cacaaaaaac aggacaaata tttcaattga tatgtctcca ggggaatttg 180

gcaaacctac tatcttaaag accttcggga aatcatttga caaaaactcc tgaacatgca 240  
 atacttaaga agtaaaccatc ttggttaagca tcagccagac accaacttta aaaaaatgca 300  
 gatggaattg agaagtatga gaggaactct gaggtactga gttgcataaa tgaggcctat 360  
 aagctggcct ttgaacgact tagtccttcc acctgagaaa tcttggaagc ccca 414

<210> 5781  
 <211> 156  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220075c02a1

<400> 5781

gaccacctat cattgaggac acccctatat tttgaatgag ggctatgatg cactctctct 60  
 gctgcagcat ttttccatca acaacctgag ggatcccttc attgaacgct agtatgggtg 120  
 ccactctgag cacattgagg ttggtgtgat ggactg 156

<210> 5782  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220075c02d1

<400> 5782

cgttaaaggt tgtattcata ttttcaactc aaaattttct acatgaataa ggttatcaaa 60  
 catctcttaa caaaattgct aaagtagcag aaattataag gagtaacatc ggcaggcatc 120  
 agctgatcaa cctgagataa gaaacactct agtaaaagaa caaggtcctt gatatttcaag 180  
 gcactccttt tttcttttta cggggtaata ttgttttgaa ggtttctact aacagaaatt 240  
 agactctccg gaatttaaac aagtattcat cgcaggcaaa aacaaaagggt taaagtttat 300  
 ccccttaagt tttatgggtc ctttaacttc tctttcccg ccttgatggg agatcaaggc 360  
 tgagctttcc agattgatga aatgtcagcc acag 394

<210> 5783  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220075c03d1

<400> 5783

caaaccaaaa ccataaattt tgcattaaat ttcgaagaaa ttaacatgat atccatctca 60  
atgcatatta atgaacatat catgtgagag ccttaaata cacaactaa cagaaatctt 120  
aaatataaaa tggctttaac tcaataaatt ggcacaccat actaattaac taattaagag 180  
tactactact taatctgtat ttcacatcatgg tctaggcttc attcttcctt cgttgccat 240  
cttgaagagc tgggcttggtg cttctgctgc cttgttgagg ttgagtgagg ccacaaacct 300  
gtccctgact tgggttggtg tgtaaggga cttgttgctc accatggagt tgaggaagga 360  
agctgtgcct tctctgtaga gtgctcctag cccatcagtt cttgtgttg aa 412

<210> 5784

<211> 366

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075c04a1

<400> 5784

tcacaattag ctttcgttta gttgctgctg ttgtttctgt tccttctcta gttccttaaa 60  
ctctttgttt ccaacatcct tagaaaagg aaattcaa aaaccagaac ataaaccggc 120  
ggctgaggtt tccaagaat atgctgcggc gttgggctct cgcaccgga gggagccgca 180  
acgctataga aatagtcgtc gccaaaggaga gggatgcata ccgntcagac ttacgatagg 240  
agtgtagtct tccttgatg tcttctgtga agactcggaa gacctgggta ttagtgccca 300  
gaaaggtaaa gggatgctct ttccttaggg aggctctgta tttgacgatt caaaatagga 360  
agccgc 366

<210> 5785

<211> 429

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075c04d1

<400> 5785

tttcgtcctt tttttttttt gttttttcgt ttttttctct ccctaaaaag caaaaagggc 60

ttagtggtttt tatataaaaa gcgaaatgct aacaccgcca ctacaacaaa attttaattc 120  
 tttttttacc tcaatttcctt acccccccaa ttgctaagtt ttaataaaact gcacctagac 180  
 aataccattc aaagaagcct cagatgtggt catactcggt aataataata ccctctaaaa 240  
 aattaacca agcattgggtc taaaaagcta caactacacc cacattattc attaataacg 300  
 aaggggtctc cacctactta ttaaatatcc cttgttaaaa ggggctgggt ttgcggccca 360  
 caaagggatg tgcagaaacc tttcccttc ttgggggcta ggtggcatcc catagaacca 420  
 ttctggcag 429

<210> 5786  
 <211> 346  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220075c05a1

<400> 5786  
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 ggatcggaac tgctgcac caaagagaag aaaaagggtcc caagagatta cgcttgaaag 120  
 gggaggcttc aactagatgc ctgatattcc catgcaacca cacaatgaaa atctgtagct 180  
 gtgcatatta tttctaagtt gtccttaggt catgagactg tattgcttat tttctaattc 240  
 tgcatgtcac gaaactagag gaggaagtct gaggaccata ttaaattact acatacacac 300  
 tttgtacttt cttgacctga tgttaaagag ccatggaaag taatga 346

<210> 5787  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220075c05d1

<400> 5787  
 aagattaaat catggggaaa tttttcattt ttttttttga gaaaacccaa aaaaaaggga 60  
 aacgaccata gttgggtcgg tgaacacaag cgttattcag atagattctt cggcctcttt 120  
 ttttaggaac gataatctgt gtattgctct cggtgtcaaa aaaaaaccaa agaccctctc 180



tgtgtctctc tcagggctgt tatctgctac tttttttttt cttctctccc ccatagggtc 240  
 tgaaaagaaa aaatgcgaaa cccgtgacct gaaccgcatc gcgcgaaagg cccaccgtga 300  
 tcgacgtctt tttgagattc cgcccacacg gggtttttcc tgggggggtg agccttatca 360  
 gactttgacg aggttcggg 379

<210> 5788  
 <211> 568  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220075c06a1  
 <400> 5788

gtttaaacg ctgtgcttga accnttnnnn ttntnngnan nccccnnnnn nnnnnnnnnn 60  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn cnnttttttt ttntntntn nttttntttt 120  
 ntttttgggg ggtttttttt tttttttttt ttntntttt tttttntat ntccttgttc 180  
 aacccttttg gaccaagggg gagaagcatt gcatgactca aattacccaa aagttaatt 240  
 tgtgtcagct ggaatggatc ttctgcacga ttgccaattg gcatatgcaa aaggtattca 300  
 ggattctgga caacaggcca agcttctatt tctcaaggaa tccactatag gctgttactt 360  
 cctaccaaac aatgaccatt tctattgcct catgacagaa atcaacaact ttgtcaattc 420  
 tgattctgac tgtaaatata ctattactac taaaacgact acgactgaaa ctactactta 480  
 acctacctt acctacctt acctacagga ggcatacata actaaagctt gacatttaac 540  
 ttgggttatc tatttctata ccctcac 568

<210> 5789  
 <211> 301  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220075c06d1  
 <400> 5789

ggtaaacaac tttaattttt catttcaaga ttatttttag gggaatggga gcacatgact 60  
 tgataaaca aaagcaaatt ttctaaataa aatatgcgtt tctaaccoca catcggcatg 120  
 agaagcagag acccaccttt tctctcgtga ggctatgttt tctagaaaca caagtctcca 180

ctctaataatc tccatctacg cccaagacct aagaatatc atgattcctt tatcaccccg 240  
gccttatatg atgtgattta cacctcacca attattattc tatcccataa actggggaca 300  
c 301

<210> 5790  
<211> 693  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075c07a1  
  
<400> 5790

tgggggnaac tgcctctcac ttttgaaanc cnnnnnnnnn nnnnttntnn nnnnnnnnnn 60  
nnncnccccn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnttt ttttnntttt nntttntntt nntnntnttn tntttttggg gtgttttttt 180  
tttttttttt tttttttttt tttttttttt tttttctttt ttgtttgcaa ccctttttga 240  
ccaaggggga gaagcattgc aggactcaaa ttccccaaaa gttaaatttg tgtggctggt 300  
ttggatcttc tgcaggattg gcaattggca tatgcaaaag gtcttcagga ttctggacaa 360  
caggtcaagc ttctttttct caaggaagcc actattggct tttacttctt accaaacaat 420  
gaccatttct attgcctcat gacagaaatc aacaactttg tcaattctga ttctgactgt 480  
taatatacta ttagtactaa aacgactacg actgcaacta ctacttaacc ttaccttacc 540  
ttaccttacc tacaggaggc atacataact aaagcttgac attttacttg gggttatctt 600  
tttttttccc ctcaactttg natcttgtct tttctttnga ataaagtgtg taattataag 660  
attgtgtacc attacttggt attgtcataa cat 693

<210> 5791  
<211> 315  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220075c07d1  
  
<400> 5791

aaaaacttga attatcgtgt atacttaaag agaataactt gccataaaaa catacacata 60

tgatgactaa agacaagata tgtcatttaa caagacagaa taattcctac aggtaaagtg 120  
cataacaatt gagtatacca tctaataatg aaaataacgc aaataacata atgcttaaag 180  
caacgttcat atcagaaggg aaaaatagtt tgaatcccat ccaacaaaaa tcatgcgatt 240  
aaaatccaat taaaaaagca taaagtaaaa taagttttta aaacaggtat ctggaggaaa 300  
gcaactacat ttagt 315

<210> 5792  
<211> 678  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075c08a1

<400> 5792

actaacacaa taaaagaata ataaaaaacg atactatgta agagaaaaga atagaaagac 60  
ataacaaaac agaaaaactg agagaagata caaaaataca aaaagaaaag ctcttaaata 120  
aaaaaannaa gggcgaatgg tagatnncan aaannanntt tnnnggacnc nnnccnnann 180  
nnnnngaaan annnnnnnaga gaaaaagang ggaaaaaat aggatttaga atggggaaaa 240  
gaaaatggta aataggtagg aagtgggtgt gtttttgtgt tagtgctatg ggaaggcaac 300  
cctgctgtga caaacttggg gtgaagaagg gtccatggac tgctgaggaa gacaagaagc 360  
tcatcaactt cattctcacc aatggacaat gctgttgccg cgccgtgcc aagctcgctg 420  
gcctcaagcg ctgtggcaag agttgtcgcc ttcgtaggac gaattatctt cgtccagact 480  
tgaagagagg gctactcaca gaggcagagg agcaacttgt tattgatcta catgcccgtc 540  
ttggcaacag gtggaccaag attgctgccg ggttaccggg aagaacagac aatgagatta 600  
aaaatcattg gaacacccat atcaagaaaa aactccttaa gataggtatt gatcccgtag 660  
tcatgagcct atcaaaaa 678

<210> 5793  
<211> 332  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075c08d1

<400> 5793

aaagggggg gccccccca aaaaaaaag aataatccct tcaaaaagg atcccacttt 60  
aatcctcagc aaaaagggg taaccccccc ttttcctac catgatcccc attctccggg 120  
ggggaaaacc ccttggccaa ataaaagcta aatctttttt ccctcaataa aaaaaacccg 180  
aattaatccc ccgtaaatth tggaaaaaaa atgggctgaa tgaaacccaa agtattgttc 240  
ccccggtttt caattaaaag ggtccccctt catttgcatt ccggctaggg gggggaagac 300  
ccggaaagcc caccacccc cccccaaaa cc 332

<210> 5794  
<211> 681  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075c09a1  
<400> 5794

acagagacaa aaatagataa caataaaaat tacacgataa aataactaac caaagagtaa 60  
gataggaaga agaacatatt tctcatcata cataaaataa aaacnggggn nccgggagaa 120  
agtcagaanc caaanann tttnggncn cnnccnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnan nnnnnnnnt tttntnnn taaaaacaaa caatacttat tcggggaaga 240  
ccaaagttag tggtgcccc acattacata gcggagcaag gcatggaaag cctctcattt 300  
caattgtatc ttcaattggt aaacaagcat tgggcttga gaaagaaccc cttccagaga 360  
agcatgatgt cgacctagg ccatcaaccg taaaagaaaa taaggaccaa agctgctcaa 420  
aagtatttac cattctccaa gaggcaccct gttcatctgt atcttccgcc aacaagaatt 480  
caacatcaat attagtgcg ctgagaaatt catgtgccct aagggaagttt ataccttcgg 540  
tgaaagatgt gataactcaa gatgaaacca acgactcttt tgttactgat gatcttgaaa 600  
atcagaagtt ggagatagat gatggcaagc aactcaaaa gtctaattggc acttgtaaag 660  
tctctaagtc ggagaattct g 681

<210> 5795  
<211> 562  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075c09d1

<400> 5795

catgctgaca ttttttaatt ccttattcaa tgtaataata tacgagtaac ctcagctcta 60  
tcaacaatca atgacatttt tgtctttatt tgttttcaat caatggaaac aattttcata 120  
ttttcatttt acttctccaa aataacaagt acctaggaaa gcaagacatg aaatcattca 180  
tattcatatt tctgataaat cactcaatta tttgctactg cacaccagtt acaagaaaca 240  
attatctctc ggtatcattc tgcagatcag caacaccatt caacttccgt cgggtaaatt 300  
ttgtctctgtt gaaaaaatcc accaatcaaa ttgcagctat aagtttggtt gcttgaatat 360  
ctaaactcca taatttacta agacagtaac caagcacccc agttttgatt actcaaactc 420  
ttcaagtggg ttggcaaata gtaacagtct gaacaatgct cagggaatat tctttctctg 480  
agaggctcgc acgcttctgg tgaaaccaag tcagagtatc cttttacgta agagcagttc 540  
catggcaatt ttttgctcac at 562

<210> 5796

<211> 590

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075c10a1

<400> 5796

aggaaaaact gctgcatct ctgtancca cttnnnnnttn tnnnnngnnnn nncnnnnnnn 60  
nnnnnnnnnn ntnnnnnnnn nnnnnnnnnn nnnnnnnnnn ntnnnnnttt tttntttttt 120  
nnttttnttt ttnntttttt ttttgggggg tttttttttt tctttttttt cccttggtgtt 180  
ttttcttttt gtttttttag ttttgtattt tgtttaggtg atcctttgac aaccacaca 240  
tttctacac actgagacca caggcctttt ggatgcttca caccgtgact tgagaagagc 300  
cagggctgca gcaactgaaca ttgtcccaac cagcactgga gctgccaagg ctgtgtctct 360  
agtgttgcca cagctgaagg gcaagcttaa tggaatagcg ctccgtgtgc ctacacccaa 420  
tgtttcagtt gttgaccttg ttgtgaatgt tcagaagaag ggtcttactg ctgaagatgt 480  
caatgcagca ttcagacagg catctgatgg tccacttgaa agtgtgttgg acgtgtgtga 540  
tgtttcactt gtgtctatcg acttccgctg ctttgatgtt tctctacta 590

<210> 5797  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220075c10d1  
  
 <400> 5797

ccatccgaat ccatttttatt tatatataaa aattatatcc aaaggaaata aaaggatttt 60  
 aaaagatcct attttttaaaa atttgaaggg gaaattataa agttttttaa ggattaacca 120  
 atttttttct ccccggcccg ggagaaaaaa gagtcccatc tgttcttgaa aagcttcctt 180  
 aaaaaggact tttgtttccc cagggaatgt tttggtaaaa aaaataattt ttttgaatgg 240  
 ggggttattc gggtttaagt aagcccgtag ctcaacaaga aatttcctta cctggccaat 300  
 ttttaaggaa tcaagaaacc ccttcgttcc agtaaaaaaa gttattatct ggtcttcccc 360  
 ggaaaaagga gctgattggg attgt 385

<210> 5798  
 <211> 599  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220075c11a1  
  
 <400> 5798

agaaaaccta ctttatcact gaaaaccctt nnnnnnttna ctgtgaancc cccnnnnntt 60  
 ntnntnttct cttccctctt ctctctctt cttctcccc tttttttant cttctactt 120  
 cttccttct cttctccct tgtgggtcta tatctttatc catcattatt tctccaccac 180  
 tatctctcct aatcaaatca actcaattta ccacctccaa aactccaat tcattccatt 240  
 tataaccccc ctccccgaat ccataattca catgcaacca tttatattgt tctacacaat 300  
 acagaatatg acgagtcctc tgcagtaatt gctcaaaatc caccatagag tgcacatccc 360  
 catatagagg atttttaaata agaccatgta cctgtggatg aaattccaag gttcgagccc 420  
 aagtattcag atggttctcc acagcattat aatgctcgaa agaaagagat tccaagaaga 480  
 agaatgccat ttataaattc ctgtgctgct aacatgccta atggagatga aaaattgttc 540

tttccacatg aaaaaccaat tgagtactct ggctcaaagg gccaaaatcc taagaacta 599

<210> 5799

<211> 506

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075c11d1

<400> 5799

aaaatccaaa agatttgttt aaacaaacat aattgttgaa aatattagtc caatacaacc 60

atctaaatgt atttagcact ttatttaaata cattacatca ttagaagggg gtcactatca 120

tccatattat tcatctgaag tccatcaacg ttgggttacag tgggcttctg cactcgtctt 180

gggctataag agaacgcgat cttgtttgtc ccagggcagc agaccctcgt gggacgaatg 240

gcgccattca aatgacaata tcagtctgaa ctgggtacca actatcacc aaacgattaa 300

tgccttgccc ttgcaggcgc agcaaaccat gctggttata atggacctcc ttcacattaa 360

gaaacactcc aggttgggaa tccattatgt ggatattgca gtgatatgcc gcagatgccg 420

gaattagctc ccttagctca aacatttcgg ctggagccat aaggagtggc tgcttattag 480

ctgaaccaac caatggctct gggata 506

<210> 5800

<211> 582

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075c12a1

<400> 5800

acccctccca cctcctcccc cccttctcat ctcccttac acccctcccc cacttctccc 60

ttccccctcc acctcccaa aaannnccgc cccctccaac cannnnnnttn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntttt nttttttttt ttttttaatt 180

tatattgggg actttctatg aggaaaaaga tgtcaagagc tcaagatgga atactgaagt 240

acatgctgaa aatgatggag gtttgcaagg cacaagggtt tgtttatggg ataattcctg 300

agaaggggaa gccagtgact ggagcatcag acaatcttcg tgaatgggtg aaggacaagg 360

tcaggttcga tcgaaatggt cctgctgcc tagtgaagta tcaagctgat aatgcaatcc 420

ctggaaagaa tgatggatgc aattccattg gtccaactcc acacaccttg caagagttac 480  
aggatacaac cttgggttct ctcttgtcag cacttatgca gcactgtgat cccctcaga 540  
ggagattccc attagagaag ggtgttcctc caccatggtg gc 582

<210> 5801  
<211> 506  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220075c12d1  
<400> 5801

ataagagaat aaaaatcttt tatttatgtc acagtcgtac atatatgata gtaagtaaca 60  
acatagggct aacacaaaaa gacacacatt aaaaggggta cattatggga acacccatga 120  
tttattaacc cataatatag taccaccaga ccagacctgc caaagcataa aaatatctaa 180  
agacctaaac gattacatgg gaagaaaaat gcattaactg ccttttgagt caagggactt 240  
tcacatgtcc ccttttaatg acacaataaa agcccttgat acacgagttt cccctcttgt 300  
cattttcact ggtaccaa at tgaaacctct tgctgtttgt gaagaggatc cattcctact 360  
cctccttgta tatcctcctt gaaatcaaag gatgacaaat cacaagggga attaaacatc 420  
aaatggatat tattattggt gctatgggtg gtataaaagg ggtatgagtg ttcattgttca 480  
tggtggcctt gaaccgggtca aattga 506

<210> 5802  
<211> 394  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220075d01d1  
<400> 5802

cgtaaagggt tgtattcata ttttcaactc aaaattttct acgtgaatag gggtatcaaa 60  
catctcttaa caaaattgct aaagtagcag aaattataag gagcaacatc ggcaggcatc 120  
agctgatcaa cctgagataa gaaacactct agtaaaagaa caaggtcctt gatatttcaag 180  
gcactccttt tttcttttta cggggtaata ttgcttcgaa ggtttctact aacagaaatt 240  
agactctccg gaatttaa ac aagtattcat cgcaggcaaa aacaaaagggt taaagtttat 300



cccttaagc tttatggttc cttaacttc tgtttcccg tcttgatggg agatcacggc 360  
 tgagctttcc agattgatga aaggtcagcc acag 394

<210> 5803  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220075d02a1  
 <400> 5803

catgcacaca aagtaaagga caaaaaacca tgcaactcat catctcatga tcttgaagtg 60  
 agaaagggac catggaccat ggaagaagac ttgatcttga taaactatat tgcaaatacac 120  
 ggagaaggag ttaggaactc cttagccaaa gcttctggtc tcaaacgaac gggaaagagt 180  
 tgtcgactcc gttggctaaa ctaccttcgt cctgatgtta gaagaggaaa cattacaccc 240  
 gaggaacagc ttttgatcat agaacttcat gcaaagaggg gcaataggag gtccaaaatt 300  
 gcaaagcadc ttccaggaag aatctgccat gagattaaga acttctggag aacaaggatc 360  
 caaaagcaca ttaagcaagc tgagacttca caacaa 396

<210> 5804  
 <211> 347  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220075d02d1  
 <400> 5804

gagagcaaga aacaagctta cttcacaata ttatacaact tattagttaa gcaaaaatta 60  
 ctcatgctct cgtagaggta tttccagatc atgacagaga caacgcaatc cggaagcaag 120  
 acttaataga agtactacta agtaaaaaat aaaataaaag cccttcatag ttaacatatc 180  
 cttaacttt gtgttttctt gaatctaaag cacaataaaa acattaaaca cccatagtgg 240  
 atactcaaaa gtatagtga ctctttactt tgccaatgat ccaagctcat ggctcgaagt 300  
 tctcatgttc atcttcaaac tctgctggt tctgggtccc gctgtag 347

<210> 5805  
 <211> 417

<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220075d03d1  
<400> 5805

ggcaagacat taattaataa aaattataac tcatcagtag caaaaacagg tcaaaacaaa 60  
attacgatgc caatttggga aggactaaca ggataatttg cactaatcga tgccttgggg 120  
ctcaaaacat caccttaaat ggggtccgcc acacataaaa gcaactaaag ccctataaaa 180  
atttggaata cactaaaatc aagcagcccc ctttcccttt tttttttgga ggtttttcat 240  
gtaaaactcc aactccttac cttccagaat gtggccatca gctctgccac attgaccagg 300  
tcttgaggaa atgcaagcaa gcaaacgccc accaccaaac tggctcctca tgggagcatc 360  
aagctttcga tctttctggc gcttctccaa ttttctctga catgggtact ctttttg 417

<210> 5806  
<211> 410  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220075d04d1  
<400> 5806

aaccctcaag ataccatcaa tgtgactctc catttatagc aggatttctc tacttatcaa 60  
tcaatgaact atactattaa tatctataaa gaatgaagac cgagaggtat gtttcaagt 120  
ttgggtgtga agttgttctg ccaccaatag atagaaaagc cccattactc cgggtgtgctc 180  
acggctgctg ctgtaattag actctagagt taaagtttca ccatcaatta tatttacaga 240  
accaggctga ggataacatg tgctcattcc tacaatgtag tctgcttcat ttctgcttc 300  
ttttcccttt ccataacttg gtatcgaaga acatataact cttccatcct gtccatatag 360  
agttgatcca gttccacctg aatgttgatg agcaacacca tagatgacat 410

<210> 5807  
<211> 317  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075d05a1

<400> 5807

tctaaatctt attcttcacc tgcaactatt ttgattgctg atttttgtta ataccatatt 60  
tactgatatt ggcgcatttc tttgagaaat gcacttattc cttgatagag gcaaaaatgt 120  
cgggtatttt caaggagaag taggttaaag cacccaaaga gctgaacagg ccagcttagn 180  
agatttcatt cacttagcct aagctaagcc acgaaatcct tcaagatttc atgtcctgct 240  
attcctccaa tgctttctca aagagcttag ggtatgatgc tttgctagcc tattccccctt 300  
caaacaagcc ctccatt 317

<210> 5808

<211> 661

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075d06a1

<400> 5808

cgcccaactc atctcccttg aancnctnn nnnntntnn nnnnnnncc cnnnnnnnn 60  
nnntnnnnnn nnnnnnnnn nnnnnnnnn nnnntnttt ttnnnnnnn nnntntnnnn 120  
ttnntntnt ggggttnntt tttttnntt tttttttnt ttttttttt ttttttttt 180  
ttttttttt ttgtttggag gacgcgcctt ttcagaggat tcattcgagg accggtgtcc 240  
ccttcaactc catgctcttt ttcgatgatg agaataggaa catccaagcg gtgtctaaaa 300  
tgggagtaac tagcattttg gttggagatg gggtaaactt tgggtcgta agggaaggcc 360  
ttacacaatt ctctcgaaac tggaatgcct cgcagaagaa caagcacaaa tggctttcca 420  
agtactccaa caagtcagat acttccaacc ccaactgcag aaatttaaca tcccattgaa 480  
ttttctctat ctggattcta ttcagaacca cactattttg tatcagtcgt ttccttaat 540  
gaagcagact gggagaactt gaatagaaac ctggtatttc caacagctat atacttgaat 600  
attcaattgg aattttctat ggatgtgatt cagaaactat ttaatgaact taaatagaag 660  
t 661

<210> 5809

<211> 331

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075d06d1

<400> 5809

catgaaggaa gataattctt atgactagtc gtagggaaca caggcaacgg aaatagtctt 60  
gaatataaaa caaacaagta tatagcatag gcaaactctac aagagagatc tttgataaac 120  
aaacaagcat agcataaatc cacatggcag atctttgatt cagatttttt gagattaaca 180  
aatcattca aatgcccatt ggttttcccg acgaacttgc tcttctcct caggggtgaa 240  
gccattctta atgttaacag ggcttgcgaa tttctctgg agccttcccc ttgatcatgt 300  
cggctacagt tagacatgta aggtccagca g 331

<210> 5810

<211> 671

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075d07a1

<400> 5810

tgggtttctc atgctccctt gaanccntnn nnnnttttnn nnnnnnnccc cnnnnnnnnn 60  
nnnnnnnnnn nnnntnnnnn nnnnnnnnnn nnnnnnnnt tttttnnnnt tttttttttt 120  
tntttntttt ttgggtggtt tttttttttt nttttttttt tttttttttt tttntttttt 180  
ttctntgat tgggttggtg tgattatata caccgaacct tttgtgatt gctttctggt 240  
ttgtgatcag agaactcttg atccgatttt gcgttgtttg cttgcctctc gtcaattgaa 300  
ttctcccat ttgtgatcaa tatgtatcgc tctgtttata ttattatttt ttttaataaga 360  
atttgtaagt tgaagattta tgttttctat ttgaccgctc aataatttga atatgattgt 420  
catatttgat catttgatat tataattctc ttgttatttg ctttttacgt acactcactg 480  
atttcattct tgaattggtg cattatgtct gtttgtgttg ctttgttggg tgttctgttc 540  
taactagact nttaggattg atgatttggt gagatcatcc cttgttagat aaattctaga 600  
ttgtgaatga aatgttttat gaccgcgaaa tctctcgatt gttcagggtc agtgctgtga 660  
tagttgtaaa a 671

<210> 5811

<211> 346  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220075d07d1

<400> 5811

aaaggaggagg gcccccccca aaaaaaaaaa aataattcct tccataaggg gtcccccttt 60  
aacctcagc aaaaatgggg taaccccccc tttcccctcc catgatccct atttcccggg 120  
ggggaaaatc ctttgggcca ataaaagcta aacctttttt ccctcaataa aaaaaaacgg 180  
gtttaatccc cgggaaattt tggaataaaa attggctgaa ggaaccccaa agttttggga 240  
ccctggcttc caggtaaaag gttccccctt catttgtttt ccggtttggg gggggaggcc 300  
cggaagcca accccccacc cccccaaac ttggctttg ttttgg 346

<210> 5812  
<211> 628  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220075d08a1

<400> 5812

gggatgccgt cgtcgatcca nnnnnntttn tgnncnccc cnnnnnnnnn nnnnnnnnnn 60  
gncnnnnnnn nnnnnnnnnn nntnnntttt nnnnccctc ttccanacag ggaagtgtgt 120  
ggggaactga ctatggtgca tacacttatg agaatcttga gagagagcct tactggccat 180  
cagagaagct taagatttcc atcactggtg ctgggggttt tatcgcgta cacatagctc 240  
ggcgccctca gacagagggg cattacatta ttgcttctga ttggaagaaa aatgagcaca 300  
tgactgagga catgttctgt gatgaattcc atcttggtga tctcagggtc atgaataact 360  
gcctcaaggt tacagagggg gttgatcatg ttttcaatct tgccgcagac atgggtggga 420  
tggtttttat tcagtctaac cactctgtca ttatgtacaa caacacaatg attagcttca 480  
acatgattga ggctgccagg attaacggca ttaagaggtt tttttatgcc tctagtgtt 540  
gtatctaccc tgaattcaaa cagttggaaa ctaatgtag cttgaaggag tctgatgcat 600  
ggncagctga gccacaagat gcatatgg 628

<210> 5813  
<211> 375  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220075d08d1

<400> 5813

agataaactg tttcatcaat tatttttttaa tagcgaacat aaggcagaaa tttgctacgt 60  
tgtcatcaat gccataaatt attacatcta aaatttcttc aatcaagggt cattaatctg 120  
tgttgtaagt caaatcaatg acctgtacac agttatctaa tttcttgagt gtcaaaaatg 180  
agaaacacgg gcataacatg gacatctgac actgtcattc catacagata cttgtggaaa 240  
atgagtatga aacattaaca agcaaagtca attcatggct cagggtgcat tttctcgcat 300  
tcttcccgta ttgactggaa aagaatagtt gacaaatata tttcaccaaa gcttgggaag 360  
acaaccccaa taagc 375

<210> 5814  
<211> 656  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220075d09a1

<400> 5814

ggaaaaacgc gcgatactcc gatnccaant tnananttta tgcacccctt ccttaaatta 60  
tatatttntt ttaacccctt tctttgttta acttttttct ttttctaccc accaaccaat 120  
aaccatgcac atgggtttct ctgcataact tcttccgccc ctgccaacat gacttgcag 180  
catgtgtgtg ttaactcttc ttcactttta catgcatgct tgagggtttg aggtttcaac 240  
attagatggg cttataaagt catcatatac aactcacat atatatatat atggttaata 300  
taaataattg ttctcaagaa ggatttagtt gattccattg aagattgaat gcactaccac 360  
cagcaccttt aagtgggaagg ttaatttctg gtgtaaatat atcaacgagc tttatctaca 420  
taaattaatg tcgaccaagg tgaaaggcat ccttaaagga cttagatata tatcccaaat 480  
attcgaagag aaagaagaag aatttcaaatt tgggttgcca actgatgtaa agcatgtagc 540  
acatattgga tcagatgata catcagcaaa tgcaccaagc tggatgaccg atttaaagga 600

ggaaaagaac cctcatcagg aaaccctact caaacagttg aagaacgtga gaaaaa 656

<210> 5815  
<211> 284  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220075d09d1  
  
<400> 5815

tttccttttt tttttttttt tttttttttt ttttccaatt taattttttt atattggtgg 60  
gatttttttt tgttcaactt tctgtttttt gataaggtaa taaaaccttt acaatttgcc 120  
aaaactgcaa gaattgcccc acagacaacc ctatattctc acgcaatatg gtaagaaaaa 180  
acaattgagg aatagaacga gaagctccca aacaacaaat ccctaacctg ttgttggtga 240  
cccaatcgca ctattaacac tcatccccca caaaaacaaa agaa 284

<210> 5816  
<211> 536  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075d10a1  
  
<400> 5816

gaanacctgc tctctctgta accacnnnnn nntttncgna aancccntnn nnnnnntnn 60  
nntnnttnnn nnnntttntt tttttntttt tttttttntt atttttnttt tttttttttt 120  
ttttgggggt ttttttttat gttnttccc cttttccttc actttccttc ttcttctctt 180  
cctttgttcc atgaaacaaa actcaaagtg ttggatagga gggtgaggat aacagagctg 240  
gtgttaaggt gtgtgaacct tgggtctaaga gctgctgcaa ttgctcttgt ggtgactgat 300  
tccaagcca aggaattttt ctcttttcac aagaaagcta aatttacaga catgacggct 360  
ttagtgttcc tggcaaatg ccaacggact aactgttccg tactccataa tccaaagatt 420  
gcgctttggt gtgagtatca ttagaggaaa tgtactcttc aacaagccct ttgcttggct 480  
catacactct gatgatcacg tgatggcata tgtgactgtc gctgcagcga tggctt 536

<210> 5817  
<211> 548

<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075d10d1

<400> 5817

gatcatcagc taggttctat atatagtgga atgaatattc tacatttgtg cttaaataaa 60  
caatttaca tgagggaac cacatgaata tgcataaatt ttttcatgaa aaaatgtgac 120  
aaaaaagaga agaaaatcgg gttggcctaa atatctgaac tgaagtccac ttcaggttgt 180  
atattgccat gtataatcca gaaccagtca atgcttcagt ttctgaaaca aagcttctat 240  
attgaaatca tgctaagttg tagagaattt gatcagatcc agtgctagt cctactaatc 300  
caagacttca gatggccaaa ggcatttcca agtggcaatc tcagcctcgc tggtaatctt 360  
tcttattccg ccataaaatc catcagcctc gttccctcc tccctatgat ctttccact 420  
gacagtggtc agcctccatc gtgagcagga gtgtaatgat tgaactctag caccacagt 480  
tcactactat gacatcggca ataattttca ctccattgc atgactccaa gtggcctaca 540  
acaccata 548

<210> 5818  
<211> 346  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075d12d1

<400> 5818

aaatatgact ttcaaaataa ttattataag aaaataataa tttttaatta tacaacaatt 60  
catgattgaa taatagcata aacaactttt aaactaatag tatattccaa tcaatgtttt 120  
ggctgaaagt taaccctaag attcatatgc caagaagagg acaataatg aggtatgctt 180  
cgacattaaa atataaaatc tattttacat caacaatatg ttattcagca aaaagaagaa 240  
attaaaagga agaagaagaa gcttgctagt ggcaaacat gactaggttt ggccttcca 300  
ctggcatggt gaacttgact gaccaaggtc agcagattct aatgta 346

<210> 5819  
<211> 469  
<212> DNA  
<213> Glycine max



<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220075e01a1

<400> 5819

atagcaatca aattagttca ttctctttgc gcagntccct acctctcctt tcaagaagca 60  
gatcttcgtc aagaccctca ccggaaagac catcaccctt gaggaggaaa gctctgacac 120  
catcgacaac gtcaaggcca agatccagga caaggaagga attcccccg atcagcaacg 180  
tctcatcttc gccggaaagc agctcgagga cggccagacc ctccgagact acaacatcca 240  
gaaagagtca acccttcacc ttgtccttcg tctccgagga ggcattgcaga tcttcgncaa 300  
gactctcact ggcaaaacca taaccctaga agtcgaaagc tctgacacca ttgacaacgt 360  
caaggccaag atccaggaca aggagggaat cccccagac cagcaacgtc tcattcttcgc 420  
cggaaatgca ctagaggacg ggcgccacct cgccgactac aacatgcag 469

<210> 5820  
<211> 545  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220075e01d1

<400> 5820

aagcaccacg aagtgcctta aaaaactata taaaatacat taggaacatc agggcttccg 60  
attcaaacat gaacaaccag cagatacata agaaatcctt agcagctaata taaaaataac 120  
cagataccgc tatttagttg ctgtatataa tccaactctt cacttgaaac atttaggtga 180  
atactactac agccatatgt tgaccacctc attctttgcc atctgctgct cgaagtgagc 240  
ctagttgaac tggggcttga gtctgcacca ctttggaaga ccatacact gatatatcaa 300  
taccttgagc cttctccttc tcgatctgct ccttaatcca gaagtatgtg atcctcagtc 360  
catccttcaa cctcatagtt ggagcccaac caagtttttc ttttataagt gtattgtctg 420  
aattacgacc tcggacaccc tcggggccag gaatgtggtg aataggaata ttcttgttct 480  
aaagccaaga atgatctcag ccatctcatt catgctgacc atctcatcgc tttcaatatt 540  
tactg 545

<210> 5821

<211> 274  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075e02d1

<400> 5821

gacaaaggta agtatgattc acaccctaac gagttaaaaa tagacagata tccatgcaaa 60  
ttaggcggcc aaaagaattg accatttttg caacggagtt catttttagtt ttacaacagc 120  
taatctccag gaccaaattg gatcaaattc aagctaacca ttaacaagta catgtgctaa 180  
aaaatttagc catgtcccaa tgtacatcat cgaggaagaa ggaggggatg aacttatccc 240  
cgatttacct tgcccattct tatgctttac actt 274

<210> 5822  
<211> 439  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075e03a1

<400> 5822

aaggctttcg ctttcaattt caccaaaacc ctaattctct tgggtgccct ctctccctc 60  
ctgctgcaaa cccacgcggg cgcgggcccc cgcaccgtcc aggcccgct ctacagcctc 120  
tgcaagccca ccaccaaagg tgggctgagc tacaggacca tcctgccgga ggagctgggc 180  
ctgccccgct tcaactatta cagggccctc agaggaggag atgctcgcga cccagaaaca 240  
ggtggagaaa acctcgaagt tgataagcga gctccaggcg aggcccgga actcgaaga 300  
tctcggcgac tactccaga tttagaaaga gcaggacggc aacatcatgg actcgaaggc 360  
ggaggccaaa agtcaagtgg ctacgcgcaa cgtcatagag gcacggttca aggtcagctc 420  
cgcaggatcc tactatgaa 439

<210> 5823  
<211> 565  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075e03d1

<400> 5823

gatcaaatgg cataacaatt ttatataaaa aagaattggg ctgcttaatc aatgacaacc 60  
 actttgggggt ccacttgcca gagaaaatac atccatcggg agagaaaagg ggggtataaa 120  
 tttatattat acaataaaaa aaattcagca tcctttgttc aacgtttctc caagtcttcc 180  
 ctgatctaga agttggaact cccgtttgaa tctctggatt aacctgaact ttgttctttg 240  
 caacatatgt catcctatcc ctaataatat tgggtaatat tggatagtag aagcatttca 300  
 aatgaataaa ataattaaat aaataaataa actttgtcag aataaccaag aagcattgcc 360  
 atggcagccc tagctcatgc taccatctgc tcctgctcta tatacagctg ctccatccat 420  
 ggtggaagca tctctttact gagatcatat tgttgcttct cagcaccaaa tatctcagac 480  
 ctctcggagg gaacatctct aaccaatgaa tgaacccatg agacatcccg ctcacacca 540  
 attcaggctg tgctatgggg gatgc 565

<210> 5824  
 <211> 485  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220075e04a1  
  
 <400> 5824

ttaagatcaa aggacttcct tattaggagg ctcatgcaga accttacatg aagaatttag 60  
 taacacgcga tgttgtttcc ggtccattga taacgttttc tggcatcgaa aaggtagcaa 120  
 atatattgca agctttgaat actactggac ataaagggtt tcctgtcatt gatgaaccac 180  
 ctttctctga ttcaccagag ttatgaggac ttgtactgag gtctcattta ctagagttac 240  
 tgaaggagaa gattttttca agggataggg gtttttagcaa atcaaaggat cttccaaaga 300  
 atttctactt tggattttgg aaaagcggga tctggaaatg ggatcaaact agaggatctt 360  
 gatatccaag aagaagagat ggatatgtat gtagatctcc atcccataac taangcatct 420  
 ccttacactg aggntgagac aatgtcacta gccaaagctg ctattctttt ccgacaacat 480  
 ggact 485

<210> 5825  
 <211> 526  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220075e04d1

<400> 5825

ccttgataga atatgtatat attcactcat acatggtata tagcgacatt accatagaac 60  
atacatgcat agttactata aaaatataaa caagctgcct ggctcagaaa tccaactgga 120  
aaatagggag tgcaaagtcc aaagttgtca actcaaacgc aaccactga aactgtattc 180  
caaagaggac cttctaatagc tgagtttctc tttcttgatt tggacaagaa gagggtaaac 240  
acaccatgag aaacttagat aatgatccct attcatgcct tcattatagc aaccccagta 300  
acttgatga taagtaacat ggtaccaagc agaagctttt gcatacacat cactactccc 360  
tgaatctaca tcaqcaactgc tgttttcatt gaaccaggcc ctggcctctt tccttaggga 420  
cctcacagcc atattgattg cttctgcac cctccctttg ttgaaagatt ttgacatttt 480  
cataatattc ccaccgagga tttcagcttc agttttgatc ccatag 526

<210> 5826

<211> 463

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075e05d1

<400> 5826

acaaaaattc caatacatTT tgaaataacg aatcggtcaa tattgggttat acatggtaaa 60  
gatatttgaa caagagggggg ggcacagaaa gagagatggt gaggggtggaa atagaaaaaa 120  
aaaaaaaaa ggaataacgt gtcagaaggc cacactaatg accaatgttg ctatatacct 180  
ggaataacaac aagggtcata cttatgatca ttgggtctaa ctagtgtgat acaatacaat 240  
cccatctcca tgaagctaca tttaaaagt tacactgatc tttccgctgc tagtagaatc 300  
aatttgtcaa gtgatgtttt gctctcaaca tgggtgatat ttgaagtTtc taccagtatg 360  
gtatccattc tgaatatttg gtgacgtatt ctcatgagtt ggaataatcg tggaagttga 420  
agtttagagga tgagacaagg tgcgaccact ctttcctga aat 463

<210> 5827

<211> 666

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075e06a1

<400> 5827

cgencntaaa ctgccctctc acctttgtaa nccccnttnn nnnnnntntn tnngnnnnan 60  
nnncncnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nntnnttttt nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ggggnnnnt nntnntntnt 180  
ttntttcttt tttttttttt tttttctttt ttgggaagtg aaagaaatat caacaagtgc 240  
cggctcaatt acatccttca caaagttggt tgcgagagac tcttacgacc atgaaatgga 300  
agttgatggc ttcattggatt atgttgatga tgctttctat cacaaaacca attatgacta 360  
caagttggga aatctgatgg actactatgg gatcaaaact gaagctgaaa tcctcgggtg 420  
gaatattatg aaaatgtcaa aatctttcaa caaaaggagg gatgcagaag caatcaatat 480  
ggctgtgagg tccctaaaga aagaggccag ggcttggttc aatgaaaaca gcagcgggtg 540  
tgtagataca gggagtcgtg atgtgtatgc aaaagcttct gcttggtacc atgttactta 600  
tcatccaagt tactgggggt gctataatga aagcatgaat agggatcatt atctaagtta 660  
ctcatg 666

<210> 5828  
<211> 493  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075e06d1

<400> 5828

aaatgatagt gcacactttc ataaatctta gaattgttct tgacatttta tacaatgcag 60  
ctgtgtgcta tattctttct ttcataagca cttgataaca atacattatc catgaacatg 120  
ctgaaactta ttaaaacaaa gtgacttagg gaagaaagca atttagaaca ctttgggaaca 180  
aatttaatta ttgctgggct ttgaagggtc gatatttctt gagatcttga gcgaggcctt 240  
ggatggagcc agcagctgag ataatagaaa cgatcaagca agcccagctc aatatcttga 300  
gccatgtcca agtgaaggaa aacttttgca tctttgactg cttaatgtac atctctatgg 360  
ggaagtaaac cgctaattggc caaaatgaca gtgaaccaat caggcctaag aagtcattga 420

agaatggaaa catcataact atcaaagcag tgatgatgac atatggttgt tctcatacca 480  
ccctgaaaaa gtt 493

<210> 5829  
<211> 669  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075e07a1

<400> 5829

aatcacaaca aacttcaatt aaacttaaaa tataaaataa aaatttaaaa acttaaataa 60  
aataaaaaaa atacaaaatc taaaacaata taaaaatcat aaataaaaaa gctatattga 120  
accaannntt tatnnnancc cnnnnnnnnn nnnnnnnnnt nnttattttt taatttttat 180  
tttaattaat aaaaataata taaaaaaaag aggaaatttt ataaatatta atcaaaaaat 240  
aaacaaatat aaaattaaat acaaaaaaat gaattggggt gtaaaacgga gacaaactga 300  
acaagctgag gaaatatact tgctttggat acagaaacag tggggtaact gcatcccaca 360  
tagcacaacc tgaatttagc gctgagacag atatatcatg gggtcattca ttggttaaag 420  
atgttccatc cgagaggtct gagatatttg gtgctgagaa gcaacaatat gatctcaata 480  
aagagatgct tacaccatgg atggagcaga tgaatataga gcaggagcag atggtaacat 540  
gagatacggc tgccatggca atgcttcttg attatactga caaagtttat atatttatat 600  
aaatattata ttcatttgaa atgcttctac tatccaatat tacacaatat tattaaggat 660  
aggatgaca 669

<210> 5830  
<211> 361  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075e07d1

<400> 5830

aaagcaaact tacttgcttt ccttctatac caagccatat gctaccacca ccacaacaac 60  
catttttttt cttttttttt acatcacatt agtaccacca caactactac tagttaataa 120  
actactacta gttaatacct gtgaaacagg cttttaatga gttcagaaac ataaataaaa 180

aaaccctcta aaaatttaac ccaaaaaaag ggagaaaaag taacatctcc cgccagatat 240  
 taattaataa agaagggcct agaaactatt taataatagc cattctcaaa tgggtgctgct 300  
 tttgcggaaca acgtagcgat atgcagcaac ctttttcttc cttgaggcag tgttgtcagc 360  
 c 361

<210> 5831  
 <211> 463  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220075e08a1  
 <400> 5831

cgcttgatcg tcnganncca cttnnnnnnt ttnggacac nnnncnnnnn nnnnnnnntn 60  
 nnnnttngnt nnnnnntnnn tntnnttttt nttttttttt nttnnctttt tntttttttt 120  
 nggtcggggg ggatatgtta tgggcacccat ataacttaag gggataaact tttacctttt 180  
 gtttttgcct gcgatgaata cttgttttaa ttccggagag tctaatttct gttagtagaa 240  
 accttcaaaa caatattacc ccgtaaaaag aaaaaaggag tgccctcgaaa atcaaggacc 300  
 ttgatctttt actagagtgt gtcttatctc aggttgatca gatgatgcct gccgatgtta 360  
 ctccctataa tgactgctac ttttaacaatt ttgctaagag atgtttgata accttattca 420  
 tgtagaaaat tgtgagttga aaatatgaat acaaccttta acg 463

<210> 5832  
 <211> 584  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220075e09a1  
 <400> 5832

cgcttgatcg tcgatacaaa tttaannttn nggcncncc cnannnnnnn aattnnatna 60  
 agggaaaaan natttnaacc ctaatttttg tntntgtttg ttggaagagc tcactctctg 120  
 tgtcttcgtc atcttcccca accagagatg cgccccacaa cagatactta ctaaagcttt 180  
 caactttcca acaccctttc agatgttagc caaggcccat aacaaagggg atggatctaa 240

gtccctggct aagatactgg caaaatggaa agaataataat gccagattg attccagcag 300  
 tgatgcagat aagccaattc gcaaagttcc tgccaaagga tcgaagaagg ggtgcatgaa 360  
 aggtaaaggg gggccagaga actcacggtg taactaccga ggtgtcaggc aaaggacttg 420  
 gggaaagtgg gttgctgaaa ttcgagagcc aaacagaggc aataggcttt ggctaggtac 480  
 ttaccact gccattggag ctgcccttgc atatgatgaa gcggccaggg caatgtacgg 540  
 ttctgtgcc cgtctcaact ttcccaatgt ttcagtttcc agtt 584

<210> 5833  
 <211> 364  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220075e09d1  
 <400> 5833

ggaaaaaaaa atatcagccc cccaattgg taacaaacag gggtaacatt aaggggacaa 60  
 taggggttcaa cccaaaccaa acttattttt aaagggtatt acagacccat tacacataaa 120  
 atttttttttt aaaaggggtgg ggaaaatcca acattgaaca ttacacaaaa attagctcca 180  
 gcttaaaacc ccccccgaag acccaacacc aagggcgagg gtgactcctt ttggagggtg 240  
 gaatcagggg ggggccttcc atcctctagc tgggtggccag caaaaaaaaa cctttggtgg 300  
 tccgggggga atccttcctt ggccgggaac ttcgccttca cattggcaag ggggggggag 360  
 ctct 364

<210> 5834  
 <211> 621  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220075e10a1  
 <400> 5834

tgaaaaagct tccttatctt cgaanccact nnnntttnnn ngaaannccc cnnntntnnt 60  
 nntnnatttn gcttcttttt tttttttttt tttttttttt tttttttttt ntnnttttct 120  
 tntttttggg gtttcttttc tcttattttc ccattctaca ttttaatcct acattatttt 180



cccctttctc cctttactgc tacagagaat gaaacaacga ctgatgtaac caagattgag 240  
 gaaactaccc cagaacagcc agccaccgat gttactgccc cagaaacagt caacgaaaaa 300  
 gcaaaagagg aagcagcagt tgagactaat gatgcaacag aagttacaga ggaagggaag 360  
 gctgataaaa cagaacaaga agaagaagtg aaagaggaga ctaaagaaac cgaatcagca 420  
 ccattggagg aagagaagca gggggagaac aaaccagctg aaaccgtaga ggaacccaaa 480  
 acataacatg tttcttgtcg agaagactga agtttaagcc cattgatata tgttattgtg 540  
 agtgggaaaa aagaagctct cgcattttta atttaaatat tattaatgtc gttattgtaa 600  
 tgctaagtct ttgggtattg c 621

<210> 5835  
 <211> 579  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220075e10d1  
 <400> 5835

gattaggacg ttgcacgtct gcagatgcat tttatttgta cctaagaatt aaagatacac 60  
 tcgagcacac agccatttca gtcttgagca cttgaaaagt taagtccaca taattcatta 120  
 aagacattgg aaacggcaaa agagtatcag caactgaggc tatccgaagc cagagatcca 180  
 aaattacaaa aggcaaaacg ataaatacgg aatgaatatg caataaaatt ctatcatatg 240  
 atgaatcaaa attcaaaatc agtctacccg ttgatcaact cctgcatatg tgggaaacga 300  
 gatgcaataa aattctacta ccatgagatg aatcaaaaac caaaatcagt ctactgggtt 360  
 gatcaacttc tgcataatgca gtttcaaggt gcgcttgctc tgcttcttgt acctccttct 420  
 cagttttcct gccctttttg anttgtagta tacactcata aaggteccaa cagctccata 480  
 cttcctccta gtatgctcat ataaaccagc atcaaacatc cttcagaagt ttttcttcga 540  
 cagctctgac acagcatact gtggctgaaa ccatgatatt 579

<210> 5836  
 <211> 637  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<223> Clone ID: jC-gmf102220075e11a1

<400> 5836

tgaaaacacg gcctgctcgc tcgtannccc cnnnnnnnnn tttnnngnnn annccnccnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnntttttt 120  
nnnnnnnnnn nnnnnnnnnn nnnntctggg gggntttttt tttttttttt cccctttttt 180  
tttttttttt ttttttttta ttgtgttcgt gtctaacaat ttatctcttg gagaacgtca 240  
aattgctgca cagtttcaag aaattccatt agatcttcgt atgggtggaag ctgagcgaat 300  
tggatttgat atgctgaagg caactgcagt tgacaaaatt ccctcagatt tagaagggat 360  
ggaagcatca atgcaacatc tgctagtctt gattgatgac atctacaaat atgttgacga 420  
tgttgtggaa ggacgagtgg caccagacaa caaaatcggg agatttatat cagaagctgt 480  
aggttccctt cccaaattgt ccccatcagt ttttgataag cttgtgaatg acagtttgca 540  
agatcacttg cttttgctgt atttatctag tatcacaaga acgcagctta gcttggctga 600  
aaaattgaac acagctgctc agattctgtg attcttt 637

<210> 5837

<211> 490

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075e11d1

<400> 5837

agataatgga gagaaagctt tttgctcatt ttctttcaaa tacagattac atgaaaaata 60  
acaagtgaac gctacactgc ataccttgga caataagtga acttacctag caaagaccag 120  
cacaaaacat aaataaaaaa taagcgaagt aaaagtgaag tataaaacgc tgacattcca 180  
cgtttctgga aataagacaa gaaaagaaac tcagaaaaat ttgacttcgg cgataaacia 240  
gcggaagaat cacagaatct gagcagctgt gttcaatttt tcagccaagc taagctgcgt 300  
tcttgtgata ctagataaat acagcaaaag caagtgatcc tgcaaaactgt cattcacaag 360  
cttatcaaaa actgatgggg acaatttggg aagggaacct acagcttctg atataaatct 420  
cccgattttg ttgtctggtg ccactcgtgc tttcacaaca tcgtcaacat atttgtagat 480  
gtcatcaatc 490

<210> 5838  
 <211> 599  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220075e12a1  
  
 <400> 5838

aaagaaaaaa aagaataaat taaaaaaaaa aaaataataa ttaaataata aaataaataa 60  
 taaagatatt aaaaaattaa tataaaaaaa taatttctaa aaaaaaagnn nnaaggggaa 120  
 agggtagaan ncaaannnnn ntttnnnngn nnnnncccn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnntt ttatnnntt tttttttgtt gtttcaattt 240  
 ggggggtata agaatgaaat ggttcaaaat aacaaaagtt ccctattcaa aagaaaactg 300  
 ggtttggtgg gcaatacaga aatgaggtgg catgtgcaa atggaggctt ggcgtggaag 360  
 caaacaacgt agtcaagtgg caaactgtta cagcagattg cagaaagtac atagatgaca 420  
 tacgttctag gagaccaata tagatcagat tccaaaacag ttaaccaaca agcttatttc 480  
 tatgctaaat cactgaaact caccaacaaa gatgtctttg tcttggaaga tgacgacact 540  
 actctctcta aaatccaagt attatgctaa aaatggattt ggtgtggaac cacacaata 599

<210> 5839  
 <211> 536  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220075e12d1  
  
 <400> 5839

aacttgaac ggacaatttc ttaatggaac aagagctcat aattcatgaa agcctcgaaa 60  
 agggaaaaca acattgttca gtgccctac atgactaagt aataatactc aggatcttat 120  
 ttcatagaaa ttaaggagca acttagaggc ttgatttgag agcttaatca tagtacaagg 180  
 gattaggcag cttaaaagtc ctagtccctt tgttgcttcc caggagggtca ctccattggt 240  
 ctccaacgtt tccaatgatt ctgtatccct ccttctccag cttctctctc tcagctgatt 300  
 tgtattcaaa tgataactta ccagagtact cagatggatc cctgagaatt aacttctccc 360  
 atgtgttgaa tccaacctcc ttttaagttct tggctgttac atcccctaga ctcaagtggc 420

tttctgataa gaatacaatc ttgatgccga gagccaacag tttgttgtag attataagag 480  
tctctggcag tgcgaatgcc tcgccatcaa gaacccagtt cttaaagccc gtcgta 536

<210> 5840  
<211> 527  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075f01d1

<400> 5840

gagagaatac aagtgaactt gtaatcacia aagattttac cattattttc aaagtagact 60  
tctttgtaca atatgtttct gcactcacta gacattttccc atttggtatg tccctaccgt 120  
acacataaat acatgcagca tttaattaga agaagaaagt acgtacgtac tgtgccattt 180  
tgatgatgat ttggttttgc tttgctatca attttgtggt ttggttggcg aggaacctca 240  
caagaggaaa cgttcacctt ccaccttccg agagaaacat ttttgtaaaa tactaggtag 300  
ataaaattca acaccaagaa cctaaatttg agcccgtggt attttgtcac atttatagat 360  
ttgatatctt acccttaatt ttctttcata gacaattaaa ttcccgtgct aatgcccttc 420  
ttccttcatt cctatcgttt gcagtgcagtg tgactctatc tcggtgaaac aggtaaaccc 480  
aaaatcatga ataccaaagt cttgacagtc caataaccaa gcacaat 527

<210> 5841  
<211> 357  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075f02a1

<400> 5841

gagactttgg gtagggtttc gtctcaactc aacaaacgtc gtcgtttctc catttccaat 60  
ctttctocaa aggcttcttc tgcttcctta atcaactcgt tgacttgctc ttcgcctgca 120  
cccactcagc actgtttcgc cttcacccgc accaccgnc aacgntaccgn cacgtnactg 180  
agacaattca acagccaccg tccgccccca ctcaccacga ggatctcttc gtcgccttcc 240  
accgtagtct gcaaagctgt ctccgttaag ccccaaaccg aaaccgaagg tctcaacatt 300

gctgacgatg tcacacagct catagggaaa acgccgatgg ttacctcaa caatatc 357

<210> 5842  
<211> 371  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220075f02d1  
  
<400> 5842

ggaaaggaag ccccccttt aattaaaaca atgggctcaa aacatggaaa attttacacc 60  
cgggaaaaaa aacatttttt tttccccccc ccccccccc aaaaaagggg ttgtattggg 120  
ggggggaggg gaaaaattta agaaaaattt gggccttttt aggggaaagg cacatttttt 180  
acattctact ttaaaaaaaaa aaatcccctt aaatttccaa attccctatt ttaaccctta 240  
aaaccaaaaa cccctaaag gctgggaatc tgggttgga attttcggga cattataaga 300  
gcattttttt atataacctt ttaacgggcc cccaccccaa tttaaaccct aagggggggg 360  
gggccccctt t 371

<210> 5843  
<211> 356  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220075f03a1  
  
<400> 5843

agatgatgga gacgacggcg aagcgtttct ctgtcgttgc gccaatcgcg gcgtagttga 60  
tggtggagct tctctcggcg agagtggagg tggaggctca agagaactcg gacgtgaaga 120  
cgctggggat acacttgac gggaagaagt gctgcgacac tggatgggaa tgtaagggct 180  
ggtctattta ctgacgtaac ctactctga ctgattattt ccagacctac caggaggaga 240  
atctcttcta caagcggaac tcgccggagg agcacgccgg aggattttgg gactaccact 300  
cgttcatcgc cgggtaccacg cttttcgagc cacaatggat cggcaccagc gggaac 356

<210> 5844  
<211> 397  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075f03d1

<400> 5844

aggaaaacaa aacatgattt gctgctttaa aaaggaatga tttaaaatac aaatcattat 60  
gggctgctct ccccttttaa aaagacctta tccaaataaa aaattaaatt tataaaaaaa 120  
tcctcccttg ttttctggaa agaacaatat accggggaaa aaaaaacaag gggttttttt 180  
ccctccaggg gccccctttt ttatgtgtag gaaaaaaatg tccccaacct actggatcat 240  
taatactttg gcaaaaaaaa ttttcaatgg tcaattttgg agtttgcccc cactgaataa 300  
ttaatagcta ctttgggttc ataaaggatt agggatgttt aaatatcttg gatcatgcca 360  
ggagctgata gccaaaagat ccaacgggtg aacgggg 397

<210> 5845

<211> 493

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075f04d1

<400> 5845

aaattgaatt ttactatcca ataacattaa tgctggataa caacactcac aaatagggaa 60  
caggacgaaa gctgtgactt ctatttaagt tcattaaata gtttctgaat caaatccata 120  
gaaaattcca attgaatatt caagtatata gctgttggaa ataccaggtt tctattcaag 180  
ttctcccagt ttgcttcatt aagggaacg actgatacaa aatactgtgg ttctgaatag 240  
aatccagata gagaaaattc aatgggatgt taaatttcat gcagtggggg tggaagtatc 300  
tgacttggtg gagtacttgg aaagccattt ctgcttggtt ttctgagagg cattccagtt 360  
tcgagagaat tgtgtaaggc cttcccttaa cgacccaagg tttaccccat ctccaaccaa 420  
aatgcttggt actcccattt tagacaccgc ttggatgttt ctatttcat catcgaacaa 480  
gagcatggag ttg 493

<210> 5846

<211> 526

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075f05a1

<400> 5846

ganccctccc tctatcgaac cctttnnnt ttttcggta annccnngg gggnnnnnt 60  
nanntntggn tattttcttt tntnattttt ttttntctt cngccnttt tcttttctt 120  
tgggggtatt tttattaaaa ttcccccta ttctccacct ccaaccaa atttacattt 180  
aatgtttccc tggatcaa acatcatc aaggtatcat gtcacatca atactaatgg 240  
cacggtatgt gatcttaca ataagccact agacaccgac gtcagcatca gtctactcta 300  
aaccgatagc aatgattaac tcaatcacat acatttccac ttgcaagtat gcactcaca 360  
ttcaatgtcc gcagctatgc aagcaccat tattctatga agaaagacca ttatgccata 420  
ccaacgactg tcatgtgctt tcaaacatc actttgaatc caaagtgaga ccacaaaacg 480  
aaaatactga tattgttata gtcaaagact tcccaaatac tgactt 526

<210> 5847

<211> 299

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075f05d1

<400> 5847

caaaaaaac cccggcggga agggggggca aaaaaaaaaa aagggggggg gggccccccc 60  
acccccctta aaaaacaaaa aagccctttg ggccccccac aaaggga aaaaccccc 120  
ttttttttgt ccccccccc gggagatgca aaaaatatta gggggacccc aaaaaaaaaa 180  
aggggcccc aaaaaaaaaa aaaaaggggg taggccccgg ggaataaaaa aagaaggggg 240  
ggcgcttggg tttttccggg gaccccccaa aaaaaaaag gggggggggg ggtcaaaaa 299

<210> 5848

<211> 525

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075f06a1

<400> 5848

cggccacccc ctctctttnn nnnccnnnnn nnnttttnnn nntntnccct ttttttnntt 60

ttttttttnt tttttttttt tttttttttt ttttttttnn nttttttttt ttttnnnntt 120  
 ttttnttttt tntttttttt ttttgggggt gttttttttt tttttttttt cttttttttt 180  
 tttntttttt tgtttttttt ctttaagtatt ttatcaagca aagaactctg tggctctcca 240  
 tgaaacttat ctccatcact gcgttcttgc aagatactat caacctaaat atgttaaaac 300  
 acacacaaac tattatctcc atagaatact tcataactct catttcatat ttgagaagaa 360  
 caacttctta tgccacataa atactctatt acagcacttt gcccttggat ccgatacacg 420  
 agacacaaact actgatgttc caaatccttt tgacatagct ctatcggatc ctccacaaat 480  
 tcctgaaggg tatgaacaaa actagatgtt caatatccat gccat 525

<210> 5849  
 <211> 548  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220075f06d1  
 <400> 5849

aaaaccataa tgcataatag agatcaattc ataaataagt attcagcaag caatttatgg 60  
 atacaaaaga cggctccgat aaaatttaat gttactaagc aaacaaagga aaaaagtagc 120  
 agagtggggt ttccacgaga taagagatac gcaagtcgat aagtatcata aaagattaca 180  
 gaagaaaagg aacagactct totcaactat atcctatttg ctgctgttgt tgaggagctt 240  
 ggtaaccagg atatcccga taactgccat acatgttggg atcctgtcca gcaggagcat 300  
 aaccataatt ttcatactct tgagcagcat acccataata tccaccacca gaaccagcac 360  
 cagcagcacc attccactgg tttggatctg cctgagcctg tttgtttgaa ggactgcgac 420  
 cccatgaaag acgcacattt tgtocacca acagggctcc attcaacacc cgaagggcct 480  
 cttcagcaca gtcctgtct gcaaattgga caaaccaca tcggttgct gctggaatct 540  
 tcacatga 548

<210> 5850  
 <211> 669  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220075f07a1



<400> 5850

ganataactg cgctgtgcgt tgattcccca tnnnnnnnttn nnnnnnnncc cennnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntt tttnnnnnnn nnnnnntnnnn 120  
nnnnnnnnnn nnnnggggnnn nttttttnt tnnntttttt tttttgttcc tggtagccct 180  
agtgttcctt caccaccact cattccttcc ccatctccct tcaactggac atgcaactat 240  
tgagggaatc atccagcaat catctgggga atccttggct ggtggggaac cctaggaagt 300  
gcatttggtg tgacaggtac tactgttcca gggttcagtc ctggccttag cttgccacaa 360  
gcactttcca acacaagaac tgatgggcta ggagcactct acagagaagg cacagcttcc 420  
ttcctcaact ccatggtgaa caacaagttc ccttacacaa ccaaccaagt cagggacagg 480  
tttgtggcct cactcaactc caacaaggca gcagaagcac aagcccagct cttcaagatg 540  
gccaacgaag gaagaatgaa gcctagacca tgatgaaata cagattaagt agtagtactc 600  
ttaattagnt aattagtatg gtgtgccaat ttattgagtt aagaccattt atatttaaga 660  
tttctgtag 669

<210> 5851

<211> 370

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075f07d1

<400> 5851

cgaaacatgc ctttcaacag gcacaaatta tattaagaa aaacaaaagg ggacaaagtt 60  
acaaacaact taaaccccc caaaaaaaaa gttacaaaca agttggaact ttatttcttc 120  
tcatttgaac ccaagcaaca aattctctct ttttctagct cttacaaggc caacaacaag 180  
cttgttttgc agaagacgca aactcatcct agcaagagga gtagcttaaa tcttctgtgc 240  
aatgtggttt tttttttctt tcaaaaaaaaa aaaagaaaaa gcgaacaaca acaacaacat 300  
taatggttgg tgttctttaa caaggcttgc caacgaaaca gtttagggca ccagcatgtc 360  
gtgtcaacct 370

<210> 5852

<211> 583

<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075f08a1

<400> 5852

cgcgcgctca gttttgaaac ccagatatna atttanaaag aaccnaccnc naanatannn 60  
aattanatta naggtaaaaa aaatatttat tataaatttt tttttttttt tactttactt 120  
gatggggttg ggggtttttgc taatgcgcta gccatattaa atgaggaccg ctttcttgca 180  
cctagaggat ggggcttcca agatttctca ggtggaagga ctaagtcgtt caaaggccag 240  
cttataggcc tcatttatgc aactcagtac ctcagagttc ctctcatact tctcaattcc 300  
atctgcattt ttctgaagtt ggtgtctggc tgatgcttga caagatgttt acttcttaag 360  
tattgcatgt tcaggagttt ttgtcagatg atttcacgaa ggtctttaag atagtaggtt 420  
tgccaaattc cactggagac atatcaactg aaatatttgt cctgtttttt gtgactctat 480  
ttattgccac aaaatagtgt tcttctttac aatagtaaca tacgaagggc atcatgattt 540  
tcaattcaga gttgtattca atttattgag tatcaattat cat 583

<210> 5853  
<211> 393  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220075f08d1

<400> 5853

aatatatggt acaacaacca tattatttac gataatagga gaatgcacat gtagtatata 60  
agttactata tatttcaatc cataactaaa ttaattctta actcacatca tgcattacaa 120  
acaccaaact tagactactc atataaacag acctaattgat gttattaagc ctgaacacac 180  
tctacaagag cttagggttta tatatcatca tatatatgat ttatataggc atgcatatag 240  
ctagggtttta tctccattga gtaattgcat agacgaccag atatcctcga tgctccaata 300  
gttggtgttg tcgttggtgg tggtaacaac acttgattga tcagtgattg tagggaattg 360  
aggttggaat ggctcaaaaag ttccttggtg tga 393

<210> 5854

<211> 672  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075f09a1

<400> 5854

aaagagaaaa attaaaaaaa gaagaaaaaa aagaataaat atataaaaga gggtaggaaa 60  
aagaagaaaa gaaggaaaaa aaaaaaanaa gnnaagggga aggtagaaac aaaannnnnt 120  
ntnnnnnnnn nnccnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnt 180  
tatntnnntn nntttntttn ttttnttta acagggtttt gtttggtntt taaataagag 240  
caagagacag ccagttcttc agcaaagtca cccattaaga caaaaacagt gtcaaagaga 300  
cagaacttcc caacaaagaa gcaccagaag ggaacaagcc agagcaacaa ccacctttca 360  
ttccggagac tgaaaacagc tatggcctat atggtcacat tgatgagtat aaccaagtcc 420  
cttccaccac caccaacccc acttcttacc acccctacaa gaccgagttt gagaactcca 480  
acaacaagta ttacaacaat gatgcctata acacaagggt atacgaaacc gggtacaaca 540  
acaacaagga ttcttatgag ggtaaccaat atgagttaag tgacacaaag tacacagaag 600  
aagaaaacaa caacaacaac aacaagtatc acaactccta tcagaacaac aaccagaagt 660  
actacaacaa cg 672

<210> 5855  
<211> 369  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075f09d1

<400> 5855

gaatgagaca aagagcgctt gaggaacctt acaaattgcc cctatgaatt aacgatacag 60  
tgagccaccc agccccatca gattacagca tacaacaagc tacttctata tacgccatgc 120  
cagacaccga aaacggaaga agaatttggt tgctcgaaga tatatcgggc caagatatcc 180  
cagaaacaca tacgcttgat caacaactcg tggggaagga tgctgaaaac atccagcgcc 240  
gatgacaaag aatacataag acaaatgccc gatgccaac tcacagtgga cggtgaaacg 300  
agatggaaaa caaattgccg accatgagaa caatgctaga actctatgga gactgtgcct 360

gatcaaggg

369

<210> 5856  
<211> 575  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075f10a1  
  
<400> 5856

gaaaaanaatc tgccctctca cctttgatnn ccccttnnnn nnntnttttn ttnttatnnn 60  
nnctcnctnn nnnnnnnnnn tnnntnttnn tttttttntt tttttttttt ttntnttttn 120  
nttttttttt tttttttnt ntntntnnn nnnntnnttn ntntttttt ttttntggg 180  
gggtttnttt tttttttttt tttttcttt tntttttttt tttttttttt taattttttc 240  
ttttnttttg ttggactcca gtccaaatat gtcgaagaaa atttgaggaa caagagtga 300  
ctgcttctca aatccaaccc agttcacaag aaggttccag tgtttattca caatgagaag 360  
cccataacat agtctcttgt gattgctgaa tacattgatg agacatggaa gaacaacccc 420  
atcttgctt ctgactctta ccaaagagcc ttggctcggt tctggaccaa attcattgat 480  
gataaagttt ttggtgctgc atggaaatcc gctttcacag ctgatgacaa agagcgtgag 540  
aagaatgttg aggaagcaat tgacgctctg cagtt 575

<210> 5857  
<211> 368  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220075f10d1  
  
<400> 5857

ggaaaaaaaa tcgatccggg gggaaactaa aattaattaa ctcaggcctg ctcaaagccc 60  
gggaagcttt ccctcacgtt gttttataca taagctaaca tgcccttccc cgggcttggg 120  
ttccccctag cagaaaaccg cttccccctt ttttttccc aaggaaaacc aagcgggcct 180  
aaggcaacct taatttcctt ttattaggaa cccaatttt cccaattgg tcctaattta 240  
atagccgaaa aatgcccccc cccccgggt tgattttact ttttcaaaa caaatggggg 300

ggacatttgg gttagctcct gtttcgcaaa acccaccttt gggtttcccc attccttggc 360  
cttttttt 368

<210> 5858  
<211> 581  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220075f11a1

<400> 5858

gtaacctcct ctatcgaccc ccnnntttnt nnnnnccenn nnnntnnntn nnnnnnnnnn 60  
nnnnntnnn ttttttttn ttntttttt tttttttgt gggnttttt ttttttttt 120  
tcctttttt ttttttttt tttttcttt acttttgtct tttgctgtat tatgtacca 180  
aacttgagct aactgagtc aaccaccacc gagaccttgg tcatgggagt ggcacctgtt 240  
aaggctcaat ttgaggtgc tgaaatgggt gtgcccgtg agaacgatgg ctgcaaagt 300  
ggaccaaact gctcctgcaa cccctgcact tgcaagtgag gtgttgggag agcaagcttc 360  
aagcagagat agcccttaat taagaataat gataaactat taatgtgtaa ctaaaaactt 420  
atgtattatg tctgtgatgg ttctcgtgca ctctggtgtt ttgtgttaa caaacatcct 480  
tagaataaag tggatcatgtc ttgcctttca gcaagttcaa gtgttttga cttgtgatgg 540  
gtgtgaaaag ctcatggttg cttctttttt ttttttttaa t 581

<210> 5859  
<211> 393  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220075f11d1

<400> 5859

cccagaaaaa gttttaata ttataggcgg agattcataa ttcagattag ccgaacttta 60  
tacagaggcg cccatttccc aacctttaaa aaaaaaaaaa aggaggcccc ctggggctta 120  
acacccccat caaaggtcca aaacacttga acttggtgaa ggggaaaaca tgacccttt 180  
tttttagggg ggggtggttaa acaaaaaaca ccggggggcc cgaaaacctt cacagacata 240  
atacaaaagt ttttagctcc ccataaagag ggaatcatta ttccaaataa ggggctattt 300

ttgggtggaag cttgctctcc caacacctca ctttcaaggg caggggttgc aggaacaatt 360  
 tggtcctaat ttgcagccat ggttttcagg ggg 393

<210> 5860  
 <211> 372  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220075f12d1  
 <400> 5860

ggtaaaaaaa aaagggtttt tttttaaaaa aaaaaaaaag gggccccccc ggtttttggg 60  
 ggcggggggg gggcccccaa gggccccccc attttttttt taaaaaaaaa aacggcccc 120  
 ggggaatggg ggggggggta aaattaggcc cccccaaaag ggaacggggg aaacaacccc 180  
 ctaaaaaggt accttttttt tccccacccc accgcgggaa tttattatgg cggggccccg 240  
 gttggttttt tcaaaaaaaaa aagggggggg tgggggtcc ccccccttt ggaagggggg 300  
 ggcccaaaaa agggaaaag gggagggggc ctacctggaa actttggccc cccccgggc 360  
 cccaagggtt tt 372

<210> 5861  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220075g01a1  
 <400> 5861

gagaaacacg cgaacaatga ggggagtga tcatgcaagc ctctgcaatt gtctgtgttg 60  
 ctgtctcttt cttccctttt tcagaaggca gcgtcaccgc ttcattcatg gagaaatacc 120  
 caaaaccaga caccgggatc aactgattac aacagtttct tcatagcgag ttctgtcttc 180  
 aaaatcattg ctttatgttg gagtctttct ggggtgggccc cttcttccac aatggtagag 240  
 agagtgagag agagtgaaag aaaggaaaga atgagtcagg aggaagatag agcgacatac 300  
 tgagaagggg gtccactgc ttaatttgtt aagggcacac acagtctctg tccatgattt 360  
 t 361

<210> 5862  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220075g01d1

<400> 5862

atataacacc cacaaaattt gatattttca ataaatttta accaagagaa aatacattta 60  
 aaaagtggaa aatactcttc catttagtgg aattttccag taggagatat gaacacattg 120  
 tgtctacatc agtaaattggg gaggagtatt ttccaccgta ttgaggtata tttagctagt 180  
 tctggccctc gcaagtaaaa tgttttgcac atgcttctct tatttggttg caaagaaaac 240  
 taagtaaatt gcccaacatc attgcataac gcgggggttca ggagttcttt gcaataaaaag 300  
 tgccgtttta acagggctaa tccataccct tcatcacgaa actgaaatga caaacattga 360  
 ttcaaaacct gccttaaaat taacataata tcacagaaag atcgagctat agttgacaaa 420  
 actgataaca cactcctaaa gtgaactcaa tctaac 456

<210> 5863  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220075g02a1

<400> 5863

agttggaacc tgctaggaaa catgtcctcc actgaagcta tgcgtctttt tgtaaaaata 60  
 ttggaggaag aagatcctgg ttggtattca agagcatcta actctgttgt agaacctgtc 120  
 atagatgtgc aaatgaataa ttccaaagtt gaaccagtaa ttgagaatgg gaactcttat 180  
 ccagagacaa agactatttc caccctaaaat ggaagtgaag ttggaacaca ggataaagat 240  
 attggtgagg aaggcttagg ttcagttgaa gtatatgac aaaggattgc acctccagta 300  
 tctggaggaa atccaaaagc ccgatatgag catggagctg cagntgagca agataaactg 360  
 tacatatatg gaggaaatca caatggtcga taccttaatg atcttcat 408

<210> 5864  
 <211> 430  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075g02d1

<400> 5864

gagtgtaatg taataattta atatggtaca cacacctaca cgacaagttt cgtgagctgc 60  
agaattagaa aataagcaat acagacaatg aacaaggaaa ctaagaaata atatatgcaa 120  
aactagagat tttctttgtg tggttgcatg gatatatcaa gcatcaagtt gaagcctccc 180  
cattcaagcg tattctctta ggaccttttt cttcaccttg gttgcaggct gttccgatcc 240  
tgttttcatt ggctctacc gaacatcttt tgtaaggttt aaaccctggt ggacgagtct 300  
ttagctttcc tggccaaga cctatgatta gcagtcctc ctcctcattg ttatctttga 360  
caaatagcag atttttctgc accccatcac aattagaact gcatttcttg ctttcaaggt 420  
cttcatcttt 430

<210> 5865

<211> 412

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075g03a1

<400> 5865

ctctctccaa gttcatggat tcttcaaact ccaaaggagc atcacagagg ctccaggact 60  
tggctcaacg gctccgctg tacaaacccc caccattccc tgaagacatc ttggatcaga 120  
tcatggaaga gaaggagat aaggctgtct cagaagtgag ttacacgaaa tcagccaccc 180  
caattgctca aaacacagca aaaatcggat acaagagagc tgctgtttcg atctgcatct 240  
ttgaagggga tgctggggat ctgagagtga tactcactaa gcgctcttcc aagctttcca 300  
cttactctgg gcaagaggcc ttgcctggag ggaaagcgga ggagggggat ccggatgacg 360  
gggacacttg aaaaagagag gcaatggagg agattgggtt ggatcctgaa ct 412

<210> 5866

<211> 166

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075g03d1



<400> 5866

ataacataca aattcatata acaacagggtt gggactccag ttacattca gtaatttagt 60  
gctacaagag gaaaccattc acttaatcaa acaaaatgat gaaccaatcc tcattcttcta 120  
tcgcccctcc tgccatggac ctcaaagggg gggggggggg ggggga 166

<210> 5867

<211> 448

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075g04a1

<400> 5867

aatttctctc tgcttcattt cttttcattc tctaagggaa ttcaaactca acatagagt 60  
caaccatgcc accctctctg gccacagggtg tcatcatgag ctcgaaactg caaggatcaa 120  
aggatagctg ggtaatatg atgcaaacac tggatgacct caagtaggaa gggacactga 180  
tcagtttctt gtagatattc aagaagcgac actgattatg ctgagtgaaga tcagaaaagg 240  
agagacttgc acccgaggga ttcaacttcg atgcgaaatt gcggagtga agcacagatg 300  
ttgaagactt ggtcatagcc cacattgttg gaatggatac cctggcccga ggctgaaga 360  
aagctgccaa gttgattgag gaaggttctc ttgctgagct tgtgcgcaag cggtatcaga 420  
gttttgacac tgaaataggg gctcaaat 448

<210> 5868

<211> 244

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075g04d1

<400> 5868

aataacatac aaattcatat aacaacagggt tgggactcca gtttacatcc agtcatttag 60  
tgctacaaga ggaaaccatt cacttaatca aacaaaatga tgaaccaatc tcattcttct 120  
atcgcccctc ctgcatgga cctcaaaggg gggggggggg ggggggaata tncatatatac 180  
gcaattcatt gatcctcaac taaaaatatt ttttttcaaa atgccaacct tgcctatatc 240  
aacg 244

<210> 5869  
 <211> 582  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220075g05a1  
  
 <400> 5869

gaanaaacgg cctgtgctcn gataccnttg nnnntttttt nnnnaanncc cnnnnnnnnn 60  
 nnnnnnnnnn nnnnnnnnnn nnnntnnnnn tnnttttttt tttttntttt tttttttttg 120  
 gggttttttt ttttttcttt tttttttttt tttttttttg ttttttatga ggacacataa 180  
 acccggcggg gacattcggg ttgttcctag gacgcaagg gtcgttgata agggcggtgt 240  
 tgtacatggg ggcacagtgt gccgggtgcta tctgtggtac tggattggcc aaggggttcc 300  
 aaaaagcata ctacaacagg tatggagggtg gtgccaaactc tgttgctgat ggctacaaca 360  
 atgggtactgc tttgggtgct gagattattg gtaccttcgt tcttgtctac actgtcttct 420  
 ctgccactga ccctaagagg aacgctaggg attcccatgt tctgtactg gcgccacttc 480  
 ctattggatt tgccgtgttc atgggtcact tggctacaat cccaattact ggtactggca 540  
 ttaaccacgc aaggagtttc ggagcagctg taatctacaa cg 582

<210> 5870  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220075g05d1  
  
 <400> 5870

gcacacaatg taaaatctat ggctgagctt aatttggaca cacatctcga tcatattcaa 60  
 caaatcaaga ccaattctgc caaaatctaa aacaaacgga cactttacga aaaataatta 120  
 ccgaaaaata atgtcatgtc agtgtgaaga ccaagtcttt ataaggattt cttgggcaga 180  
 tggagacatc atgatgcatg caagcatcac tatgcgagag agaatccaac aaacctgaca 240  
 cctagctttt totatatctt tcattatcct cggggaatca tctctaaatc catcatcctt 300  
 taacttggtc agattcacat cattgcagta aaccggcttc cttgagagca gctttatatt 360

cttaacactt tgtgctgcc ctcaattaca cgagtgccaa atggtctcga tctcgactga 420  
gccttta 427

<210> 5871  
<211> 446  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220075g06d1  
  
<400> 5871

gcatggaaaa aacatggcaa agcaactacc atcattcaat aagtaaagt tttacacaaa 60  
tcaactcatg aacaatgtac ataactaatt cagccaaacg tcgtttcttg ccactggcac 120  
agatccgacc aatcatatgc ttgtcttgaa ctactgcagc attttgcaat aaatctatta 180  
gcagagaatc acaatgcaat tctttttttc ttcttccttt ttttgtttg gagatctgta 240  
caaatactga gctgtcagga gaatatgggc ttcattcaca aaggttcttg gcttctgaaa 300  
ttctataatt cgttcttgct tattagtggg ggggtgtgact gaaactacac caatgaggaa 360  
caatgtagca attgagttga aatcataaag atcaccacac gattgtaact ctccaagagc 420  
caaccagcc ttgacagtga cataag 446

<210> 5872  
<211> 629  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075g07a1  
  
<400> 5872

tgggaanacc tgcgcggtcg gtccganncc ntttnnnnnn tttnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntttt tntntnnntn 120  
nnnnntntn tntttttttt ggggtttttt ttttgtttg tggcctatct ncttgtttga 180  
taagaggttc acgaggaatt gaagaagcct tattgaaaca cttgggagtg aagcgcaatg 240  
aagtaacacc agatggtttg ttttctgttg gagaaatgga atgcatggga tgctgtgtga 300  
atgctcctat gattacagt gctgattatt caaatggatc agagggatat acttataatt 360  
actttgaaga tgtaaccca gagaaagtag ttgagatagt agaaaagctg agaaaggggtg 420

agaagccacc gcacggcacc caaaatcccc gccgaattaa gagggggga 480  
 aactactttt gtttaagttag cccaagcctc ctccctgccg tgacctggat tcctgctgaa 540  
 gtgtgatata ctttttgcct tcaataatgt gaggttgca tgtgttgag cttgtcttaa 600  
 ttgaaacatt gtcagattgt ttgatgctc 629

<210> 5873  
 <211> 540  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220075g07d1

<400> 5873

ggtacatata actgtatatt gctgatttca ttctttcttt tcatgtaaag attcgtaata 60  
 cacaagcctg cttcagaagt agcaggaagt ttggacaaaa gattcaaaaa ggaaaagtaa 120  
 tacacaaagt gtgcaaaata tatttcaaaa gaaatacaaaa atctttaatc acattcgag 180  
 ggtggagaga attctaggac agcctcagt ccatttcagt aagaagagct cgcttttgtg 240  
 aagcattaat tacattatgt gtttcagcat tctcaagcac ttcagcaatt attgcagatg 300  
 cagggccaaag gggttcctca gccaccctct tcaacatgaa agcctggcca tgatgggtta 360  
 tgtaattgt gcagggttgc tgaaaccaag gctctccatc aatttgaaca ggaaacatgg 420  
 caacaattg tatcttaatt gactgtcctt gtgcaagtct tcgagctcga gaaagcccga 480  
 ctgaaagttt ccgaggtgcc atgttcaga tatgtcaca acttcaagta tcttatcatg 540

<210> 5874  
 <211> 145  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220075g08a1

<400> 5874

agaagaacgt aaaaaaatag aaagaaaaag aataataaaa aaaaaaaaaa aaaatgataa 60  
 aagtaaaaag gaaaaaaaaa aaaaaaaat aaataaaaaa aattaatatt ataataaaag 120  
 annaaagaaa gaatcattag aagac 145

<210> 5875  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220075g08d1  
  
 <400> 5875  
  
 acaccggttc taggaaatga gaagatatac atcggataca aacatctttc aaccaacaag 60  
 tgacttttag cagtttttat ccatcagaac ttcttctacc aatcataaca ctgatcaatg 120  
 attacagaag ccccaaactc tcgacaaaac acattgcaaa tatagttact tagttacaca 180  
 cagcatacct gtgcagagca caaaggcaca tatectgtcc tacatgagac gctatacaat 240  
 tgggttggtca gttaccatct ctaaaccaca cagtacgctt ttgcacaagc tcattgagaa 300  
 aatcatcagg tttctcaagg gcgacatttg gcattaccac aacatgtgca acgtctgctt 360  
 ggcacgcatg ctgccacttg tgcacaaacc cttcatcgtg aggcctctca aacacaacgg 420  
 tgctgctg 428

<210> 5876  
 <211> 571  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220075g09a1  
  
 <400> 5876  
  
 aataataata atataatddd aatataataa aagtgaata tataaagtaa atatatgaat 60  
 ataaataatt ttaaaatatt tatatcaa atataataat tataattaca ggantagggt 120  
 gtagagttga aacacnnnnn nnttnnnann nccccnnnn nnnannnnntn nnnnnntnnc 180  
 nacnncaact aancaaaaca tttatdddta atttaaattt ataataagga agggaaatag 240  
 aataaaagga aacataaaat ttaaggggat aaaatttaac cttttgttat tgcattgcat 300  
 gaatacttgt ttaaatatgg gagagtataa ttaattgttag tagaaacctt taaaaaata 360  
 tatacgcagt aaaaagaaaa aaggagtgc ttgaaaatga aggacattga tatttatagt 420  
 agagtgtttc atatctcagg ttgatcagg gatgcctgcc gatgttactc cttataattg 480  
 ctgatacttg agaaattdag ttaagagatg taagataacc ttaatttatg tagaaaataa 540

tgagatgaaa atatgaatac aacctttaac g

571

<210> 5877  
<211> 427  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220075g09d1  
  
<400> 5877

aaagaaaatc tcaaactaat cgtcaattgg ttctattgat tggcaacctt ctcatatttc 60  
ttacagatag taaaatttaa attgtaatct tacatggatg aatgccaaag aatatatagt 120  
gatatttaaa aacaatctca taaataatat ttgaatgagg gattcaaaat ttaataggcc 180  
agtactatac aaagctggat atatgcctcc tttatttggt ttgggcctta ctgcagtcca 240  
tgttttccat gcgctctctc ttgagagcag tgaacttggc agctatgtca tcatagtctg 300  
gcaacttagg atgaacatga ctaggatgtg gagaaggaca aaaatatgtc cttaacatct 360  
tatctttggt gggtctgtgc ctctcttggg gcatggtcac ggcccttgaa taggaagctt 420  
ctgtttc 427

<210> 5878  
<211> 565  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075g10a1  
  
<400> 5878

nctcccgctc gataccctng taaancccta atanaanann tntnnantga ggaanaaaaa 60  
cccccnan acgtgncana aactatttct caaacganta cactctcttc ataactaata 120  
atattcacc tttttttata tctaccta at caccacatca tccctcttat cggggggtat 180  
ttactatcaa ctatttcctc taatattcaa ctactacaat cttcaattcc acttcgaaca 240  
ctataaaaac acgatcactc acccaaata tgatcattga agacccccca actcttgaac 300  
ttgcatgctc ttcttagaat actagaatat gaacatccac atggagatca taatcaaact 360  
aactatcaac ttgaaatgac atggggataa ccctgtgacg gtcaagacat atctaccaca 420

atacaatcta aactggaaca cctcgcagac aaacaagcat aaatggatta tcaagatctc 480  
 caacaagtcc atacactcta ccacccact gcacgaaaaa taacatacca tggaacattc 540  
 tctatcgga ttctatacaa aacca 565

<210> 5879  
 <211> 308  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220075g10d1  
 <400> 5879

ccttaagcga caatgactaa taggggtgag gagatgttga ccccgacga gcgtgccgcc 60  
 cgagatgctc aggatttatt gatcgagcgc tgggaccag ttataaacca cgtataggcg 120  
 gagatcaacg aagtctgtaa caaagaagaa agaatgacta tttgtgccgg agtacgtgtt 180  
 gaaggctcta ggggtttctt gaatttggcg agtacattga ggaagtctat gcggcatttg 240  
 aacaacacaa gggtggtgac aatgcatgac ttcttttaaa ggggtggcaag tggggcaaca 300  
 aatctgat 308

<210> 5880  
 <211> 509  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220075g11a1  
 <400> 5880

cgnaacact ccctctcctt tganacccn tnnnnntntt nnnnnnnnnn nccnnnnnnn 60  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntttttttt ttnnttnntt 120  
 tnnttttttt ttttttggtg tttttttttt ttttttntt tntttttttt nttttttttt 180  
 ttctntccc ttgcttcgtg ggtggaggag gcggctaacc cgatactaata ggtgtctggc 240  
 gtggaggcgg aggtggttcg ggtgatcggc gagtgccggc gtgcgttgaa gtttgctagg 300  
 ttcgtgagca ggttcggtaa gagttaccaa agcgaggaaa agatgaagga gaggtacgag 360  
 atattctcgc agaattctcag gttcatccgc tcccacaaca agaagcgttt gccctatact 420  
 ctctctgtta atcattttgc tgattggact tgggaggagt tcaaaagaca cagactatga 480

gcttgccaaa attgctcttg cactcttaa

509

<210> 5881  
<211> 465  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220075g11d1  
  
<400> 5881

gcaaagacaa tgctatctta taactgatat ttgaagcggg agcatcaata caatacaata 60  
tgtaactatg aactatcaat atatgatcgt tattatgtct gtgatacaca caattaaggc 120  
cataatatac ttatgtgatt tacaacaact tctagcttat tttatacatc atgccaaccc 180  
aactaggagc aattttcatc atacaattac acttatcttt aatcatcatt catcaatact 240  
ggcatcagca atacgctcta aactctgaag catgacaagg tggtagtcac cagggaccat 300  
attgttatgc aatttatgcc acaattggat aagatgcaca agttgcaaca cacacatgtt 360  
cttccccaat tccatcttga agtagccatt ttcaccccag ctttctcccc atgaattttt 420  
tatgagccaa tatgggacac cattttcaac tccatatcca acagc 465

<210> 5882  
<211> 529  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220075g12a1  
  
<400> 5882

tgtacctggc gtcgtcgata ccannnnnnn tttttnnngc accccccctt acccccnann 60  
nnnnnntcng annancccn ncacccccctt aaattttttt ccaatctcct ttaaatttct 120  
aataatgggg aaagacgttg agcaggtcac agagcaaggt gaatactccg cgaaggacta 180  
ccatgaccct cctccggcac cgttgatcga ccagatgag ctcaaaagt ggtccttgta 240  
cagagccgcc atagctgagt tcatagcaac actccttttt ctttacatca cgtgttgac 300  
cattattggc tacaagagac agagtgcac caaaatcccc ggtaacaccg aatgtgacgg 360  
cgttggcatt ttgggcatcg ctagggcctt cggcggcacg atcttcatcc ttgtttactg 420



cactgccgga atctgtgggg gacacatcaa ccctgccgtg acattcgggt tgttccttgg 480  
acgcaaggtg tctttggtga gggcgatggt gtacatgata gcacagtgt 529

<210> 5883  
<211> 335  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220075g12d1  
<400> 5883

gttgtggttg tttttttttt ttttattttg ttattgggga caagcccccc ccaatttttt 60  
aaagggggac ccccgagaa taaacgccgg gaaaaaaaaa agttataaac aacaggggggt 120  
accaaatccc cttcgtcata aaaacctttt tatgaacaaa tttaaaaacc cacgggcttt 180  
ggtttttccc ccaaaccac ggggtactggc aaaagccaaa agaggggggc tctgaaacaa 240  
gactaggcgg aaaacacctt tttttattgg gggacccaag cccaccaca tttggtttag 300  
gggggggaga aacttcagct tttttgtttt taaaa 335

<210> 5884  
<211> 429  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220075h01a1  
<400> 5884

atcgtttttg aagaacaagg gcatgtttgt aaaaacatac taatcaaatt aaacagcgaa 60  
gaagagtttc aaatttattg cttcgaatct ccagcttcgt cagggaagga aaacagcata 120  
acgtgaggtc tcgggggaac caaaaactga gaaattctga agccactagg ccttttataaa 180  
accaaactaa ggaagacggt ttagacagag tgtacttcaa gctaagaaaa tggaaagagg 240  
ggttgtggct gagaacaaca acatcaacaa ctatgaatcc aaagcaactt ccaccatcac 300  
cattaaaggc attctcagcc ttctaattga aagcattgat gatgagaatt gagatggagg 360  
tggaagcaag aagagagtta tttctctagg tatgggagac ccaactctca ccacattggt 420  
ccacacacc 429

<210> 5885

<211> 386  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220075h01d1  
  
 <400> 5885  
  
 cccccacac acccggggag gggggccccc ctttttggaa aaaaaccccc aaaaacaaaa 60  
 acccccccca aaaaaaaaaa aaaggggggg gggaaaaaaa cccccccccc ttaatttccc 120  
 ccgggaacaa aaaggggggc cccccccccc ccccataaa agaaaatttt tttcccgggg 180  
 aaaaccccc acttaaaacc ccccccccaa ttttttcata aggggaacag ggggcaaaaa 240  
 aaaaaaatat ttttaacccc caaccgaaa ccccccccaa aaaaatcccc ctttttaaac 300  
 ccccccaac aaaaaaaaaa agggggccccc cggggcaaaa aaaaaaccac cccctgggg 360  
 ggacaccttt tttgagtaaa ccccc 386

<210> 5886  
 <211> 470  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220075h02d1  
  
 <400> 5886  
  
 aagcttatat taataagtaa aggcgaataa tgtcttcttc aagaagcgcc ccagaagaaa 60  
 tcttatgtgt caaacctgag tacactctat caagcacacg gggatcagca cagaaaatag 120  
 ttggtttcta gttccccagc atcatcaatt aacaatttga catccccacg gcagaaacct 180  
 attgaagcac catgccatat gaatatctcc tcaatgacct tatcaaaaga atgtgcgagt 240  
 ggaaggtag atgtgtatc atccttctca gtcaattgtt catttacact ctccaacaat 300  
 cgcttaaccc cagctaagag agtaataata ctctcatttg atatcaacac tccttgggg 360  
 tcaccgtag ttccactagt atacattatt gtacagatgt cactcctttt cttaatagga 420  
 agatcaaagc tctgagtttg acccactagt aaaaattcat cccatgaata 470

<210> 5887  
 <211> 528  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220075h03d1

<400> 5887

gctctcgat ctttattagt attggatggt gattgactat gcaatagaca ttgctccatc 60  
tgatgtaatt atttggtttt ttattcattt gcataaaaact cttttctttt agttctttta 120  
aaaaagtaca ttcagaggaa tgtattaaga gattgaaatg ctcgatctat tttcattgaa 180  
tccaaagcaa aatagaatat ctaaaaccaa acttgactag acaacaagaa tcagtagggc 240  
tacttacact gttgtctttt gtcagcgttg ataccatacc actgctgaac ttgaattctc 300  
tctttcatcc aattattgat tgccagatct gcgagacatt acaagtgata gtgtccagtt 360  
ccacacgtgt gacaaaaaac ccatatgttg ttgctgctct acaaattttg tctcaacaac 420  
ttcactgcct actaatcttt gcttttttcc cccacagcaa cctccttcga acaacaattt 480  
tttcttttct aaaaggatca gtgaatcgaa tatcctccat gctacttt 528

<210> 5888

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220075h04a1

<400> 5888

ataagagagc ccgtcatttt gaagttgatt tgtctgcttt ccggaaagta cttgagatcg 60  
acaaagaacg gatgattgca agagttgagc ccctagtcaa catgggtcag atcagcaggg 120  
tgactgtacc catgaatctt tcccttgctg tagttgcaga gcttgatgat ctaactgtcg 180  
gaggtctcat taacggctat ggtatagaag gaagctccca caaatatggt ttgttcgctg 240  
atactagtag aggcctatga aattattttg gctgatggca ctcttgggag agccacaaaa 300  
gacaatgagt actctgatct atactatgcc attccgaggg ctccaggaac actcggcctt 360  
cttgttgctg ctgagatcaa gcttataccc gntaaggagt acatgaagct aacctataaa 420  
cctgttggtg gcaccctgca agatcttgc 449

<210> 5889

<211> 366

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220075h04d1

<400> 5889

atgaaaagtg attttcacat aacaaattaa agacattgga aacggcaaaa gagtttcagc 60  
aaccgaggct atccgaagcc agatatccaa aattacaaaa ggcaaaacga taaatacggg 120  
atgaatctgc cataaaattc tatcataaga agaatacaaaa ctcaaaagca gcactacccg 180  
tgagaacaac tgctgcatat gtgggaaacg agatgcaata gaaggctact accatgagat 240  
gaatcaaaag tcaaaattag acctactggt gagaacacac ttctgcatat gcactatgaa 300  
ggagcgcttg ctatgcttat cgtaccttct tatcagtggg actgccgtac attgataggt 360  
aggata 366

<210> 5890

<211> 528

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220075h05a1

<400> 5890

ggggncccc catctccctt gaaaccctg nnnnnttttn nnnnnnnccc nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnt ttttttnnt tttntttttt ttttttttgg 120  
ggtttttttt gttttttctt ttttttcttt tttttttttt tttttttgtg tattcaacaa 180  
ctatggacct ggttctaaca ctagcaatag agtaacatgg cctgggttact ctctgttgaa 240  
tgctactcaa gcttgggaact tcacagtcct taattttaca ttgggaaata cttggcttcc 300  
tgacacagat ataccttaca ctgaaggact actaagatag acagctgaaa gcttaaattg 360  
aaaaaaataa atttgattca ttatttggtt gatgtaatgt aactacatga ttttcctttt 420  
aaaggaatag catccaaaag ggatgagagg cattgatggt cttatgaaaa ttcaagtctt 480  
aataagaata tgtacaagtt tgcagaaata atatgcttta aagcaatt 528

<210> 5891

<211> 499

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075h05d1

<400> 5891

gcagaaatag gccatgcaac gccactcttt attatatctg tcatcatatt tacatacaga 60  
aaatcaaggt gaactccaca caatattaat attttcactt tacagaaagt gcagtaatat 120  
ataaacacgt agaccattgt attgcatcca tcataccgga atgaaggaaa tttacacact 180  
actaaatddd ccggatgact tgaaaaaact aatcataggg tcataaagat cttgttttgc 240  
ttgcaagctt aaaatgaagt caacatgacc atagttttca agataaacca cttccggtgt 300  
ggatggcaat tccttgagtg tgtgctggaa atcagttata tctgcaaag catcatttcc 360  
accataggcc atccacagag gcaatgattt gggatgcca ctaagggtcga actttgggtg 420  
attgaacttg ccgtactcta tcagattdtt tagctttcca taatcatact tggagtaagt 480  
acctttgcgg atcatctgg 499

<210> 5892

<211> 535

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075h06d1

<400> 5892

gcagaaatag gccatgcaac gccactcttt attatatctg tcatcatatt tacatacaga 60  
aaatcaaggt gaactccaca caatattaat attttcactt tacagaaagt gcagtaatat 120  
ataaacacgt agaccattgt attgcatcca tcataccgga atgaaggaaa tttacacact 180  
actaaatddd ccggatgact tgaaaaaact aatcataggg tcataaagat cttgttttgc 240  
ttgcaagctt aaaatgaagt caacatgacc atagttttca agataaacca cttccggtgt 300  
ggatggcaat tccttgagtg tgtgctggaa atcagttata tctgcaaag catcatttcc 360  
accataggcc atccacagag gcaatgattt gggatgcca ctaagggtcga attttgggtg 420  
attgaacttg ccgtactcta tcagattdtt tagctttcca taatcatact tggagtaggt 480  
acctctgcgg atcatctgga aaagggtgtt caagtttttg gaggatgatg ggtga 535

<210> 5893

<211> 695

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075h07a1

<400> 5893

caaaaaaaaa acataaaaaa tataacataa aaaaacaaac aaaaaatata aaaaaacaaa 60  
aataaaaaaac aaaataatcc aaaaataata agannnccgg gcgaaagtag aaaccaaann 120  
annnttnnnn nnnccncccc ccnncccnnn nnnccncccc ccaaaaacaa aacaaacaac 180  
ccattttcaa aacaaaaaaa aaccacaaac ggggagaatt caaattcttc accaccacca 240  
tacaagtacc catcaccacc acccccagtt tacaataca agtctcctcc tcctcctgta 300  
cattcaccac ctcccacagt ttacatctat gcatcccctc ctctccata tcactactag 360  
gttattttctg aagaatataa gccataaaaa aacgttggtg atagcaggaa gaagcacttc 420  
gcaattgcac aaggaaaaca acggaagcca agttaacgcg cattttgtca cataagaaaa 480  
acgaagtgac aatccctttc ttcttcggat gtattgttca tgaattatta attactttgg 540  
tactagacag ttgaatggca ctgcttatga ctctgtcgtt gaatgatatc acatgaatgc 600  
attttggaat gcaacctgct gaacatgcaa ggtgttgcca agccaatttt ataatgaata 660  
aaatcaaata tatgctttgt ataantattg aaaaa 695

<210> 5894

<211> 454

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075h07d1

<400> 5894

aataaaacga catggtattg gcaagaaaac gcgaaaacca cgaccacagg atactaacgc 60  
acatgtacgt aacacttaaa aatacatata caaattaaca tgggcatgtc tgttgagatg 120  
gacgtcacca caaatatagt aaacataaat taaataaaca tagtgacgag gatatacaga 180  
ttattccaat ccaccatgta taagcaaatt aattaagaac acaattaaat gaagcatgtc 240  
tctcgtagct caaatagctt ggccagaatt acaggtttga ggagctcctg aaagacccta 300  
gagcctttgc tgcttgggcc ctcaacacgg actggttgta gaatgcagca agagcagcac 360  
cgatgaaggg tccaaccag aagatccact ggtcatccca agccttctcg ttgttgaata 420

tgacagcagg cccaaggctt ctagctgggt tgat

454

<210> 5895  
<211> 615  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220075h08a1  
  
<400> 5895

gaaaacgccg tgtcgancca tnnntttnnn nnnnccnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnttttn ntnntttttt tttttttttt ttttgggggt tttttggttt 120  
tgcctatgat aatactgttg gtggaggtga tgatgctttc aacaccttct tcagtgaac 180  
tggggctgga aagcacgtgc ctctgcgat tttttagat ctgagccta ctgtgattga 240  
tgaagttagg actgggacat accgccaaact atttcacct gagcagctca ttagcggaaa 300  
ggaggatgct gcaaacaact ttgcccggtg ccactatacc attggaaagg agattgttga 360  
actttgcttg gatcgcatca gaaagcttgc tgacaactgc actggtctcc aagggttttct 420  
ggttttcaat gctgtgggtg ggggcactgg ctctggtctt ggttccttt tgctggaacg 480  
tctttcagtg gactatggca agaagtcaa gctcggtttc actgtctatc cttcacccca 540  
agatataacc tctgttggtg agccttaca cagtgtcctc tccactcatt cccttcttga 600  
gcacactgat gtggc 615

<210> 5896  
<211> 452  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220075h08d1  
  
<400> 5896

aataaaacta catggtattg gcaagaaaac gcgaaaacca cgaccacagg atactaacgc 60  
acatgtacgt aacacttaaa aatacatata caaattaaca tgggcatgtc tgatgagatg 120  
gacgtcacca cacatttagt gcacataaat taaataagca tcgtgacgag gatatacaga 180  
ttattccgat ccaccatgta taagcaaatt aattaagaac acggttaaata gaagcatgtc 240

tcttgtttct tagatagctt ggccataatt acaggtttga ggagctcctg gaagacccta 300  
tagcctttgc tgtagggcc ctcaacacgg actggtggta gaatgcaaca agagcaagac 360  
cgatgaaggg tacaaccag aagatgcact ggtcatcca agccttctcg ttctgaata 420  
tgacagcagg cccaaagctt ctagctgggt tg 452

<210> 5897.  
<211> 286  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075h09a1

<400> 5897

acaaccacca aaatactaac aattaaaaaa aacaacacaa acaactacca taatcaaaca 60  
aacaactatt accaaaaactt aacaccaacc cacaaccac ccaacaaaca ccttttnaca 120  
atcccccccc ttttaaaaan ncnnaanann anaannaaaa aannaaanna anaaaaaaaa 180  
aanaaaaaaa aaaaaaaaaa aaaaaaaaaa ttaaaaaaaaa aaaaaaaaaa anaanaaaag 240  
ggggaaaaaa aaaaaaaaaa nnacaaaaaa aaaaaaaaaa aaaaca 286

<210> 5898  
<211> 415  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075h09d1

<400> 5898

gagcatagaa tgcatataac tcggtgataa aacaaaggct ttgatgatca tcatataata 60  
aaaaagtgat atgataaata tagttgggag tgacagccaa caggaacgga ggaagagatc 120  
cgtgatctgg ctgatagaaa aaagacactt ttatactaaa aaaagacaga aggcaaggca 180  
gtgaaaagag tttaccgtac agattctaata tctacacgag gtgaatatga aacagcagcc 240  
cccttttaaa agtttttttt ttttttttta taaaaagtaa acgggctttt ttggtcgatc 300  
gagacaaatc ttcacaataa ttttgcccca tggcgctcca ggtaagaatc acagttcgac 360  
cgattcgatt cttcaccttt ttcccctaac aatcccacag aatcgctaaa catta 415



<210> 5899  
 <211> 556  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220075h10a1

<400> 5899

ggaaaaactc ctctcgcttg tatccaacgn nnnnttttng ggnaaanccc nnnnnnnnnn 60  
 nnnnnnnnnn nggntnnnnn tnnnnnnnnn nnnnnnnnnt tttttttnnn nnnnnnnnnn 120  
 nnnnnnnnnn tntngggggg tttntttttt tatntttntt ttccttggtt tccctttggt 180  
 ttttntctt tgatatnttg ataaaattta ctaggccac cccagctgaa acaactgatg 240  
 tagctaatgc aattcttgat ggaacacatt gtgtgatgct taatggtgaa agtgctgctg 300  
 gggcataccc agaacttgct agaaaaatca tggctcgcat ttgcattgaa gcacaatcat 360  
 cccttgacta tggtgccatc ttcaaagaga tgataaggct taccctattg cctatgagtc 420  
 cattggagag ccttgcatca tctgctgtcc gcacagcaaa caaggccaaa gcaaaactca 480  
 ttgtcgtgct gacacgtggc gggctctacag ccaagttagt tgacaagtat aggccagcgg 540  
 ttccaatatt gtcggt 556

<210> 5900  
 <211> 531  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220075h10d1

<400> 5900

aatcattaag cttaacaact ttattcaaaa aaataacaag cagcgtgtac aagagatcat 60  
 tattaactta ctgtggcacc taatttctgt gtttaaaagt gtctatctga ttgtatcaag 120  
 ctgacttcat gaaatagaga ttaacaatcc atttgctgca gtcacttctt aagcagcatt 180  
 ttttgattca agtgttctgt gaataataat tgcactctac tttctataaa aacttcgatc 240  
 aactaatgaa tccaacactt cgacacgtac agaagaaaga atatttttca tggagatccc 300  
 tcatttccat ttgtgaggca tgatatcagg gtgaagtccc aaaacatgct ctggcataaa 360  
 atcatggcgt gttagaatcc caacaactgg aggtctccct tggctctttg gaacaacaca 420

catgtgcctg agtccatgtt gtcggaaaag aatagcagct ttggctagt acattgtctc 480  
accacagtgt aaggagatgc attagttatg ggatggagat caacatacat a 531

<210> 5901  
<211> 626  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220075h11a1

<400> 5901

tgccnaact cctactactt tgtaaccccn ntnnnnnntn ttnnnnnnnn nnnccccnn 60  
nnnnnnnnnn ntnnnnnnnn nntnnnnnt nnnntntnn ntnnnntnnn tttttttttt 120  
ttntntntn nntttnttt nntttttttt ttgggggtt tttttnttn tttntttttt 180  
ttttttttn tttttttttt cctaatttac tcctcttggc atcttgtgtt gtgtccctct 240  
tttaagctat ttccttctct taacacaatt ggttgtgcca attgccatag tcaccaacca 300  
attaacaaag gtatatatat catcatatca tcaccaaag aaaaatattg ggttgttttt 360  
tcttgtggtg gtggctactt ttgtggtggc agccacagct ggtagctttt accaagactt 420  
tgaaataacg tgggggtggtg agcgtgcca aatctatgag aatggaaacc ttctcacact 480  
ctcccttgac agagcctctg gctctggctt tcgttccaaa aaagagtact tgttcggaaa 540  
aattgacatg cagctcaagc ttgtgcctgg taactctgct ggaacagtaa ctgcctatta 600  
tttatcttct ctggggccta ctcatg 626

<210> 5902  
<211> 419  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220075h11d1

<400> 5902

cgaataataa aactccaaca attttattaa tgaaaatact ttacaatttc agcacatata 60  
cactgccatg aatataattt tgcacgctat aattatcttt cgccacaaac aatggagtag 120  
tgctcaacaa agcacaaacc aacaataata acagtttttag ttgcattaat ttacacaaga 180  
aagtaaatta acgtaatagg caacacatgt gtgtcacgtt catgaggatc attttataat 240

gatatgcaac attgaattaa atatttctcat gcaatggagc attctggagg aaggccttga 300  
 gggaaacgtc tgatatcagt gcaataattg taaatcatgt aattcttttg caccaacgga 360  
 tctttgcctg ccccgtagcg ttcagtgatt ggccagtggga gaagaagttt gggattgaa 419

<210> 5903  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220075h12d1  
 <400> 5903

ttgagcattt tttttcttcg ttattttttt taccacagac ttcaataaac tggccggaag 60  
 ctaacaccaa ctataggcca aatcaccaat aaatattatt tcccgttctt ttggcgtggt 120  
 ggcacccac tgagcacatt ggcactcaca catagaagca gagagaggcc attggttggt 180  
 tttagagatg ggaagcatgc acatagaaac cccagaaact tatagctgat ggtagcaaaa 240  
 acttcgatga tgatggacga gctaaaagaa ctgggactag gatcactgca agtgctcata 300  
 tgataacggc tgcgattggg tctggagtgc tatctgttgc atgggcactt gcacagatgg 360  
 gttgggtagc tgggtctgca ggcgtctttg acttctgttt gataacatac ttcacctaca 420  
 ctcttctega tgactgttac cgctcacctg acctgtaca tggcaagcga aactacacat 480  
 attctgaggt tg 492

<210> 5904  
 <211> 562  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220076a02a1  
 <400> 5904

ctccaccact attcccttca cccaatcac actttccgct attagttag aagatgagta 60  
 cgctggatgc aacaagggct gaacttggtc ttottgtttt atatttggc aaggctgaag 120  
 caagggacaa aatatgcagg gcaatacaat atgggtccaa atttttgagt aatggggaac 180  
 ctgggtactgc tcagaatgta gacaaaacaa ccagcttggc acgaaaagtc ttccgtctct 240  
 ttaagtttgt caatgaccta catgctttga taagtccaac accacagggg acaccctcc 300

ccctagctct gttgggaaag tccaagaatg ctctactctc cactttcttg tttcttgatc 360  
aatttggtg gcttggcaga acaggcatct accagaataa agagcgcacc gaactaattg 420  
gccggatata tctttactgt tggttgggat cctcggtgtg tgccaccttg gttgagcttg 480  
gggagcttgg aagactctct gcataatga agaagttaga gaaagatctc aggaacaaga 540  
attaatacga tgatgaagca ta 562

<210> 5905  
<211> 543  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220076a03a1

<400> 5905  
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attaaagctg aaagcccata taacactggg ttcaattcaa agtatgtgag tacggatgga 120  
aatgatttcg gcagcacaaa cgataagggtt tcagcaaact caattcctca aactcctcgg 180  
agtgaggggt agatcttgcg gtcaccaat ttgaagagct ttcccttgct agaacttaag 240  
acggccacta gaaatttcg tccagatagc gtgtaggag aagggtggtt tggatcagtt 300  
tttaaggggt ggatcgatga gaattcattg actgctacca aacctggcac tggcattgtt 360  
attgctgata aaagacttaa tcaagatggc atccaaggct acagggagtg gttggctgaa 420  
gtcaactatc ttggacagct ttctcattct catctaata gattgattgt gttttgcctt 480  
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<210> 5906  
<211> 505  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220076a03d1

<400> 5906  
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taaggcaact aggtgttaca aaatagacta gggaaccaca gcacccta atagacaaca 120

agaacaaaaa tgagctaatac agagctatca tacaaatata atgtacctgc cttcgcatct 180  
 agtttagtag ttacaaacac ttaaaacaga actccgaaaa tattaattgg tggactagca 240  
 atactgaata cattatgtga aataagatat gtacaatact agagtgcaat aggctaatag 300  
 ctactgaggt gactgagttg gtggatgaga tcaccagcaa cagatgcatg atgataagtt 360  
 tgcaatatca agtatagaga ggggatgcag aaggccgggg ataagctgtg ggagtctcca 420  
 tagggctaata atcatcgga cttcttctac gaactcgaga tccattaaca gaaggatttt 480  
 gatagcctct attcacatca gcaact 505

<210> 5907  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220076a04a1  
 <400> 5907

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 cggcctctca cgtgtcaaat tcctggaagc gtgcggtctc ctctccctc gctcacgtca 180  
 gacccatcaa gccatggctc atagtectca cccagagcct ccgccactcg cacgtgacaa 240  
 ctctccacgc ctacgacccc cgctcgacg tgtggctcca aataaaaaac accgcacgtt 300  
 cccacgcttc ccccgtgga tctctccact cgacgctgtt ctacgcgctc accccatccg 360  
 agttcagctt ctccctcgac gcgctgcacc tgaaatggca ctacgcgccc tccccgcgcg 420  
 tgtggcgcac caatcccgtg gttgcgcgcg tgggatcgcg cgtggtggtg gctggcggcg 480  
 cgtgcgagtt cgaggacgat ccgctcgcg tggagatgta cgacgtatat agccaagcct 540  
 gggatgcgtg tcccttcatg ccggcgct 568

<210> 5908  
 <211> 559  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220076a05a1  
 <400> 5908

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aaaatgcgtg agatcettca catccagggt ggccaatgcg gcaaccagat cggcgccaag 120  
ttctgggagg tggtttgccg ggagcacggg atcgacccta ccggaaggta cgggtggggac 180  
tcggagttgc agctcgagag gatcaatgtc tactacaacg aggccagttg cggtcggttc 240  
gtgccgcgcg cggtttctcat ggacctcgaa ccgggcacca tggacagcgt ccggtccggg 300  
ccgtacgggc agatcttcag gcccgacaac tttgtgtttg ggcagtccgg ggcagggaac 360  
aactgggcca aggggcatta cactgagggt gcggaattga ttgattccgt tctcgatgtt 420  
gtgcgcaagg aggctgagaa ctgcgattgc ttgcaagggt ttcaagtgtg ccattccctt 480  
gggggaggaa cttggatcag gaatgggaac cttgtgattc taagatcagg gaagagtccc 540  
cagatagaat gatgcctac 559

<210> 5909  
<211> 523  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220076a05d1  
<400> 5909

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tctttgattt atgaaccagt tatttatctg ctttaattgc agccctgttt cctgcaccaa 180  
ccttgcttg tctcttctg ttggatatgg ccatttagaa tgtgactgcc accaagcttt 240  
taaaagggaa gtggtgtcgc ctggtagctt tcccgctctt ctctttcgta aaatttcttc 300  
tcttatgtcc acaatcttgt ccttgtaacc ctgttttaac tcatgcttca gctcctgcct 360  
cacacgctcc atcaaagatc tttcagtttc tgtgggaaca agaggaccaa agctgagact 420  
atcagctcca tccatgcttc cttcgaacaa gttggcatta ctctctgcct gatcttcttc 480  
atcgncggac attgttgcaac ccgttccttc accgggagat aca 523

<210> 5910  
<211> 507  
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220076a06a1

<400> 5910

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gtgattagtg aacggtgaat gttgaggatc tgctactttt tgaacattga ataaggtcta 180  
tcagacaagg atttgacaga atttgcaga atcaaattgt taattctctt ctgaagattt 240  
cattcgttcg tttgcgatat ttgaagatac atttttctct cgaaaaatcg tcgaattcgg 300  
aactctggac tctctgctag atcgtgcctg agtttgtact tgtagccgtg gttgcagatc 360  
gaagctctga aatgtcggtta ttagttggag tttagaaata gattttcatt tttcaaagct 420  
tcagaactga aaccagcgag cttgtgtggc gcgtcttaag gcttggggtt ttgacggaat 480  
cggattagtt taggtaggat ggataag 507

<210> 5911

<211> 325

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220076a06d1

<400> 5911

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attttcaaac cgaaattcta taataccata gtaagaacta agaagcaaca tgcaagttca 120  
gaggtaggaa aagtaaagaa tgactgcttt cttctcaaata aagagtagcg aaatccaaac 180  
acaaataagt tcatgtaaag agaatttcat tgggtacatga actttataat attaaacggg 240  
gtaagaactc attgtgacct tgaatgaaat aaagaaaatg accttatgca tatttttgca 300  
aataagaagc tatcgcttat tcaact 325

<210> 5912

<211> 480

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220076a07a1

<400> 5912

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ggttcttgcc attcgtgaag gagaattggg ggagtatgat gagccaatga acttgatgaa 120  
gagagaagga tcaactgttg gacaacttgt caaggaatat tgggtctcatt tgcagtctgc 180  
tgaatcacat taaagctaga aatgtttcat ttttattgat gtcaatctag tccaaccctg 240  
cccatagact aaacggattg gaaaagtaga ctacttttt caccaattga tttttcaaaa 300  
tttcttgata tttttatttt cttattcttt gagtttggtt ttatgaatta atatgttgct 360  
ggatttgctg tatttatata ttctttcttt tttaaattag ataaataaac tcaatcttgt 420  
aacggtcggt ttaattccct attaattggt attgttgatg acttacaatg gcttttgaac 480

<210> 5913

<211> 516

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076a07d1

<400> 5913

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tcggttaaat aatgttataa cttacaaatg gatcaaatg aagcacgtag tgcttggtga 120  
ttcctctaaa gtataatatg aatgcaattg acaggacttg aaactgccat gctatacaaa 180  
taaccaattt ttcaaataag gaggaaatgt catccttaat attattttca catatacctg 240  
ttcaacaaat tggccagaca tagtgtgaag ctttcttctt atgatatatg cttttgggta 300  
acctgaattt ccaagcctct tgaatttatt ggaaaaaggg taaattatca gatgaaatcg 360  
ggttgacctg ttgaagttaa gcaacgatgc cacattcgac tggtggggtc caccaaccta 420  
ggatgggata tcacttcggg gatgggaaga gtaacatagc ggggtgtaca taaacctact 480  
gtaatgccac tatatcctgc aaacgcacca tgaaca 516

<210> 5914

<211> 532

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076a08a1



<400> 5914

gattcatagg cccaagagca aagaaactaa gaagattttg agcacaatgg catccacaca 60  
atgcttcttg caccaccatg cctcaccac tccaaccaga gcttcatcac agcgcttagt 120  
tgtgagcacc aaaccaaacc acattgtttg caaggcacia aagcaggttg tccaagaggg 180  
tgaggacact actaacattg tctctcgag gttggccctc actgttctca ttggtgctgc 240  
tgctgttggc tctaaggttg cacctgctga tgctgcctat ggagaagctg ccaatgtggt 300  
tggaagcca aagacaaaca ctgacttctt tccatacaat ggggatggat tcaaactctc 360  
aattccctca aagtggaacc caagcaaaga ggttgagtag ccaggtcagg ttcttagata 420  
tgaggacaat ttgactcaa ccagcaatgt tgctgtcatg gtcactgcaa ctgacaagaa 480  
gtccatcact gactatgggt cacctgagga gttctatct caggtggatt ac 532

<210> 5915

<211> 497

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220076a08d1

<400> 5915

ccaacccctc tctttctttt ttcgggtctg acccctcatt tatgtttttt tccaaactaa 60  
ataaacctga agcacaggat catccaaaga ggctcagaat catgccaaag aaatttcaaa 120  
tttgccatga aatttcactt tccatcattc cattccaggc tactactctt ggcttctctc 180  
gtcccgttcc cactgtacac taaccaatat tattattccc taaaaataaa ataaaaaaag 240  
gaaaacagct tccttttttt tttttctctt cccttgatca tagttcttca taaacctcat 300  
tttgtgaaaa cacttattag gtcataataa taataataat attaataatt acgaatccac 360  
cctgctaadc ccaattcttt ttaacgacac gttcctaaac ccttccatta tttccatacc 420  
ctgaaaacac attatcccat tctgctgttc caagtaactc ctaacctact tccttatcat 480  
ttcatgcac accgtca 497

<210> 5916

<211> 414

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076a09a1

<400> 5916

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cggatgtggc aaccatacaa ggaccagaat cttgttgagg aaagccattc aaatgtgact 120  
tcttcagact tttggaatca acctccagtg aaagcattca gttctgcaat gacaactagg 180  
cgggggaaga cacttgagat tcagtggcct cctatgtccc ttcccagcac ctattactac 240  
atctccctct attttcaaga caacagaaat ccaagccctt acagctggag aattttcgat 300  
gtttctatta atggccacac cttcttttcc agcctcaatg ccacaactaa gggagtcact 360  
gtttatgctg caaaatggcc actctcatgg cagacaaaaa ttacattgac ccct 414

<210> 5917

<211> 238

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076a10a1

<400> 5917

ggatggagag acatagtgga agaaagacag ttcgtgttcg cgatcggaga ctttgaaacc 60  
ctgcgttgac ccattcattc ctagcattca acaatgtctc cgttatcgaa gctctcgttg 120  
ctgatactga tggagtccat ctctcccg agggcctcct ccgacgagag agtgagcgaa 180  
ttgctctccc tgcaatccag atccaaatcg ggcagtatgc ggctgaacga ccaatccc 238

<210> 5918

<211> 338

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076a10d1

<400> 5918

aaaaaaaaa aaaatagggg ggtttttttt ttttttttaa aaaaaaaaaa cccttcctt 60  
ttttgccccg ccccccccca aaaaaaagg ggggtggttt caaaaccccc cccctttttt 120  
tttttcccc cccttttttt aaaaaaagg gggggggttt ttttttcctt taaaaagggg 180  
gtttcccggt ttaaaaaacc cccccacccc ttttttttac cccgggggaa aaaaaaaaaa 240

aaaagggggg gggaaatddd tttgtttttt tccggaaaaa aattdttttt tgcccaaaa 300  
 aaaaaaaaaa attggtttta aggggggccc gcctaaaa 338

<210> 5919  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220076a11a1

<400> 5919  
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 gctctgtttc ggaacttgct tgcatagatt ctatctgtct caatctctct ctttdttttt 120  
 ttttdttttt ctttdttctcgt cttcatttcc aactgtctcg atcagctagg gtttgatcta 180  
 ataatctcga tctcgcatagc gcaaccgcaa ctgtattctt tatgcttgcc gttcataccg 240  
 ntgctggggg ttggaagttt gaagtttagca aaaaatgatt aatagaagat gcttdttgaca 300  
 aaaaataggg atgatgaatg ctttdtttgt tcaatatgtt ttttgagaga aagaggatga 360  
 gtgttcatgt attaaccagc ttagaattgc ccatgtatga a 401

<210> 5920  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220076a12a1  
 <400> 5920

actcaaagtc ctactggggc tgtdttttcca tttctagctg tagtdtttaca tctatgaacg 60  
 agactaaaaa agtaaaaataa gtdtttttgag ttctctcatg tttgagtaca ctgccctctc 120  
 tgggtccagtt gaaaatgagg atggggaaga tattcctgaa taagaagccg cctgcagaat 180  
 tagttcagatt gaataggagg aaagttctga tacacttaaa aaggagtga gctagaaatg 240  
 tgaacttgca ctggcacacc aagagagtgc agttaaattg tttagcatta aaggcaacag 300  
 aacatgtgat gtgtgcaagc aagaagttca gaaccttctt gtcactcttc tacgagtttt 360  
 aaatggccaa acactctact tgacaaggag tagaagccaa caatacaggg tgtggcaaaa 420  
 tattccatt 430

<210> 5921  
<211> 291  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220076a12d1

<400> 5921

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ttttggatca accccctcag gaaaagggat ttatctaaaa gacctgcttt tcttgcccg 120  
caaaacacac acagagggcc ccagagattt tgtgtctcag atacatgcat ctatgggtggg 180  
gccctgagge tctcattgga gactttttcc aacacacaat tcttagaaat tctaatttgt 240  
cacaccacct tttgcaacct attttgtctc tggaaggccc ttatagagac c 291

<210> 5922  
<211> 422  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220076b01a1

<400> 5922

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ttttgtgtgc tgccgatgga tcccaagggc tcaaagcagc aacagccaca ggaggtggta 120  
ccataattgc tcaacctgcc gcaacatcaa taccaacaac aagggaattc caacaacaac 180  
aacatgggag agaacaaacc atcagaggtt aaggatttcc agatagtggg agctgctgag 240  
aaggacgaga gccagatgca gtaacagttg gcaccaaaga ggagtttcaa caatgacagg 300  
cacaccaagg ttgacggcag gaggaggagg atcaggatga ctgctctctg tgctgtcaga 360  
atctttcagt tgaccagaga attgggccac atatctgatg gggaaaccat tcaatggctc 420  
ct 422

<210> 5923  
<211> 525  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220076b01d1

<400> 5923

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atttgacaaa tatgattatg aaactatatc ttcaaattca caaaacaaac cgatctcagc 120  
actccaccct gtcctagaga agaacaaaat aatcaacaca cctctgaatt aaacaatagt 180  
tttaaggcca gaccaaagca gccaaagccat ctggccatgc aattccacct gtatatggag 240  
acttgagtac tggggagaag gaacaataag gggctaaacc aaatccagct ttctattgaa 300  
ttctctgaga cacctttttc ttttctcac agtctcccaa ttatactaca atacaaaagc 360  
cattgtagaa acctcagcca gcctctgcac aatgatgctt ctttcttttt tcttttcac 420  
caaatccata ataaaactct actactgtcc tctgagcct tgagaatcat ccttagcagg 480  
agtttgctga tgctgnntgt gctgatgctg atgctgttga tgcac 525

<210> 5924

<211> 426

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076b02a1

<400> 5924

aagaaaatcc tcaattttct gagcagtttt acactctctc tctgtctctc aaaaattctt 60  
agttcgcata gaaaatatga atcatgtaga ggcacgcgca tgcgcacgat caccttctgt 120  
gtgacattga aggtgaccac ctcaactcag ctgatatcat cggccaagac ggcagcgttt 180  
gggctcagag ttccgactta cgtaagtcaa acctgaggag ataactgcca tcatgaatga 240  
ctttaatgag cctgcatcac ttgtccaac tggattgtat ctgggtggca ccaaatatat 300  
ggtcatccaa agtgaacccg gttctgtcat tcgaggggaag aaaggctctg gtcgtgttac 360  
tgggataaag accggtgccg tcttgatcat tggcatttat gatgaaccaa tgacttcagg 420  
gcaatg 426

<210> 5925

<211> 516

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220076b02d1

<400> 5925

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aggtacccca ctaaaaaagt acaaagatag agattatagt catcatttct caagcatcaa 120  
acacttttctt cgcaacacgc agatcccgtg acttttcata ctcacaagat tattacactg 180  
caatcaaagc attccagtcc aggtcgtatgc aaaaacttgt acagaagcca atgaaatatg 240  
cacgataaca agacattaag caaagattag agaccctggt caatgagata atcaccaagc 300  
ctttcaacta ccatgttgca ttgacctgga gtcattgggt catcataaat gccaatgatc 360  
aaggccgcac cgggtcttctt cacagtaaca ccaccaggac ctttcttccc tcgaatgaca 420  
gcaccggggt caccctggat gaccatatat tnggtgccac cgagatacaa tccagttgga 480  
gcaagtgatc caggctcatt aaagtcattc atgatg 516

<210> 5926  
<211> 344  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220076b03a1

<400> 5926

ggatgattat atcatggtca agggatgctg cgttgggtccc aagaaaaggg ttattacatg 60  
gcgccaatcc ctcttaagc agacttctcg tgttgctctg gaggagatca agctcaagtt 120  
tatcgacacc tcttcaaagt tcgggcatgg tcgcttccag accacacagg agaagcagaa 180  
gttctttgga cgctcaaag cataattttg ttaattggat ggaaatgctg gatttctatt 240  
cggttaccat atcttataaa catattgtag tgtttactgt tttgacatta tggatcctcg 300  
agtagtgagt tatttcccc ctttaagttg ccaaactttt gttg 344

<210> 5927  
<211> 326  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220076b03d1

<400> 5927

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atgttaataa aatatggtaa ccgaatacaa atccagcatt aacatccaat taacaaaatt 120  
atgctttgag gcgtccaaag aactttctgt tctcctgtgt ggcttgaag cgaccatgcc 180  
caaactttta aaaggtgtcg ataaacttga gcttgatctc ctccaaagca acacgaaaag 240  
tctgcttaag gagggattgg ctcaatgaaa taaccctttt cttgggacca acgcagcatc 300  
ccttgaccat gatataatca tccctt 326

<210> 5928  
<211> 477  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220076b04a1  
<400> 5928

ggaaaattaa accatcaaca acaacagaat aaaaaaaaag gagccaaccg aaatggcaaa 60  
caaatacact gcgttgttgt tgggtggtgtg ccttatagtc gttgcaagtg ttgatgccat 120  
atccgatgcc aaaagaggat gcatagatga ttgccacgct aattcttgca cgctccaatc 180  
gatgttgtgc aaaaactatt gttgttttgt ttgcttaacc gtcaaccgta gagaaacatc 240  
agaggttcat actcttggtg atggagcatc aaggaaaatg aaagcgcaaa tgattaaaga 300  
tcctaccgag ccaaagcact aaacacttgg aacataatta gttaattgag atgcagaaca 360  
tggaatcga acgattatcc gaagcacggt tggcataatg cactgaagat taatatatat 420  
aaggctctct caagaacaag gacaaaatat tgtattactt aattactatt tatacac 477

<210> 5929  
<211> 506  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220076b05a1  
<400> 5929

attcttcact cctcctcctc cctctctttt ccaaacacac atcctcaacc atggcagcgg 60  
catcttcaga gacaaagtca ccatcatcct cgaacacgca gttccgctg aaaccaatcc 120  
caggcagcta cggaatgccg atttttggag caataagcga cagacacaac tacttctacc 180

accaaggacg cgacaagttc ttcgcgacga ggattgaaaa acacaactcc accgtgatcc 240  
 gaaccaacat gcctccgggg cccttcattc cctcggaccc tcgtgtcgtc gcgttggttg 300  
 acggtgcctc cttcccgatc ctcttcgaca acgacaaggt cgagaagctc aacgtttctcg 360  
 acggcacctt catgccttcc accaagttca ccggcggggt ccgcgtctgc gcctaccttg 420  
 acaccaccga acccaaccat gcactcatta aacagttctt ccttaacgtc ctagccaagc 480  
 gaaaagactt cttttgtccc tctggt 506

<210> 5930  
 <211> 532  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220076b06a1  
  
 <400> 5930

ctactacat gaaaggcctt gttctcctgc tggctcattg tattggggca tgcttttcgt 60  
 acaaagaaca ccctttaata accaagctga tgnactaaca tcacacttaa accagccact 120  
 aatgcagttt taagcgctta attagtaggc tttggcctat ttcttgctct ttcctgagat 180  
 gaagaatggt ggtatcgatc caaacccaaa atcagattca aattcaatgg attgggtatt 240  
 gtttcattct gatcacattg tcatatccat aaagaagggg gggaaaaaaaa gttagcactt 300  
 tgcagaagca ttgcaattat ttttaagttgc aatagctagc tgtagaaat gaaccactac 360  
 tgtgaaagat gttgaatcat acgtacgtgt gttctatcag agaagctgct tttgatcttg 420  
 tggtactacg gtagatgcca aatgagtgga aattgttctt gtttgaattt gctttagtaa 480  
 gaatcccttt ttcaatttgc agaatctctt gtatttaatg gtgtactata ta 532

<210> 5931  
 <211> 473  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220076b07a1  
  
 <400> 5931

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tcggaatcct ccctcgtgat gctaaggatg agtcgatgat gaagtggttt gaggtgccgg 120  
 gggttcaacat cattcacgcg ataaacgcgt gggaggagga cgagggaaga acggtggtgc 180  
 tgggtggcgcc gaatattctt tcgatggagc acgcgctgga gagaatggag ctagttcacg 240  
 cgatggtgga gaaggttcgg atcgagctgg acacagggat aatcacgcgg caaccggtgt 300  
 cggcgcgga tctcgatttc gcagttataa accctgcgtt cgtggggaag aagaacagg 360  
 tcgtttacgc ggcggtgggg gacccaatgc cgaagatctc gggggtggtg aaactcgacg 420  
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<210> 5932  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220076b09a1

<400> 5932

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 tggaactcaa cgcttaaacy caagtgcgcy tccttcatga ccggcgatga agccccctcaa 120  
 gatccgacgt gagcgagtcc agcgtgtctc ccggcgaggt ctctgtctct gtctctcctt 180  
 cacaagagtt tcgccccgag ccggttcggc cggttgtcga aacggcgctc tctcaagacg 240  
 acgccgatgc cgacgccgag gatgctggac ctactacctc gctggcgctg tctcttcccg 300  
 gggaggagtc atcggaatc tc 322

<210> 5933  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220076b10a1

<400> 5933

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 ctctctctcg tctctctctc gagctgagag tgaaatcctc aaggaggcat ttagctcttt 180  
 taggatcaaa actctcgcat tcaatctcat agagagctac aaaatcaaaa ctgggttcat 240

ccacctccaa ttcaaacc ttccaatcct ttttcatgta caaatcctt ttgcaccctc 300  
 ttcaaaaccc tagactccat tgacccaac tttgccggt cgcgaagca tttagagcct 360  
 nctccacgct ccaccataat ttccattcc caaaatttct cattctcct ttctctctg 420  
 aatccttgag cactctcacg cgctcctata ttcacctcct g 461

<210> 5934  
 <211> 533  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220076b10d1  
 <400> 5934

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 aaaatgaaaa ataaatacaa atggtaattc cttgaaaaag aaaaaaaaaa agtcttacia 120  
 ttatatcctg gttaattgtg ctaaggggaa taaaaaaaaa tccaaaactt gcacttgctt 180  
 tgttgctctg atagcacatt gcttgacccc gcgcccctt cctgagtatt tacctgtggg 240  
 gcgggtcaca gctgagacca ggtatcagca gcctgctgat aggatcgaca gaacatgagc 300  
 atgagctcct gatttacaat tttttaagca agaacatgag ctcttgatag gatcaaatga 360  
 gtacaagcaa cgtggcccgaa caactttgtg ccagatgact gacaactgtt caccatggca 420  
 atctactggg ggatgcttct gccttaaaga gcaaccagtt ggaaatgaaa aggaccatct 480  
 ccttcctaata tttccattcc ctcaatccag tcatacttag atccacactg gga 533

<210> 5935  
 <211> 334  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220076b11a1  
 <400> 5935

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 ctgccatddd gtaaaaggag aactcgcttt aatgttttga ctattaggaa ccttcctctg 120  
 gaactctttc atggaggtat ggtgaacatc atatgtcatc atcactggtt tgatcgctat 180  
 tatgatacca ttcttaaaag actggctttg cctgagaggg tcaactgactt tttggccatg 240

aacagattac ttcccatag agatggacat ttagcaatca aagataactta agatgtcctt 300  
 ctcttggaca tggctgaaga tcttgagctg ggct 334

<210> 5936  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220076b11d1

<400> 5936

gggaaaggggt tttaaaaaaa aacaggggggt gggaaaaaat tttgggcccc ccaaataaac 60  
 aattttcccc agccgggccc aaaaaaaaaa ccaaaaaaaaaa aaagggggggg gggggggggg 120  
 ggcaaaaacc ggggtgaaca aaaaccccc ttttttcggg gaaaaccctt ggtgtttttt 180  
 tcccccttaa aaattttttg ggcttttcca aaaaccctt ggggggaccc cctttttccc 240  
 ccgttttggg attaaaaaat ccccccaaat ggttaaggac ccccagggg gttggtttaa 300  
 gggggttgta aaaaaaaaaa accttttatt ggggcaggaa ggcaagaccc ccccctgggg 360  
 aaaataaaaa aaaaaaaaaa gggggg 386

<210> 5937  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220076b12a1

<400> 5937

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 aaaaaaaaag ccaaggttag gagccaacaa aaataaacac aaagcacaag tcatggaaag 180  
 aataatgggt ggaagtgcaa caaaggttgc tttcaccctc ttggccactt tcgccattgt 240  
 cattccatgc cttgaagctg gcattgctga gtttgacgat tttctcaaag cccaagctga 300  
 agaagcccat aaaattgctc tagattccta tgtcccagag ccccacgatg tcgcccata 360  
 actcaatttc catgttcata tggcactgga aaa 393

<210> 5938  
<211> 399  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220076c01a1

<400> 5938

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tcatagtaat attgggtcat agaactgttt atcagaggca gcaaatacaga agagtctatg 180  
aggaaatttt ccaggaggat cttgtgaaac gcctagagtc tgagatcaaa ggagactttg 240  
agaaagccgt gtaccgatgg atactagaac ctgcagatcg tgatgctgtt ttggccaatg 300  
ttgccatcaa gaatggcaaa aactacaatg tcattgtgga aatcgccact atcctcttcc 360  
cggaagagct tttggccgtg agacgtgctt atctcaacc 399

<210> 5939  
<211> 57  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220076c01d1

<400> 5939

atgggtacat ttatctcttt tttcttataa aaacaaaaga catactgaaa taacatt 57

<210> 5940  
<211> 502  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220076c02a1

<400> 5940

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catgacggat gacaaaggta cagttttttc cttgaattat gagttcaggt tcataggtct 120  
acaactttgg ggattttgag gggtcgagtt tgtgggtaag gtggacagag gtcttcgata 180  
ttgaatatgt gtctacctct gatttgagta tgggttctag cagcttttct tctaggagtt 240  
cgacctcctt gtgcgaggac aatccgacat aacttgctat tgaggagaat ttggtggatt 300

tggggttagat atcgtgcaac gaaagagtga gtgggtgacgc accttttaat gataatgtga 360  
 caatcatttg ttagccgaaa tgacaagtgc cagttaaaaa gaaagagtac tgcgccgaata 420  
 ctctactatg gtattcatgg gttgatgggtg aagtgggttc cttctatttc tgttacaacg 480  
 atgaagtcaa tattcttacc tt 502

<210> 5941  
 <211> 465  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220076c02d1  
 <400> 5941

aacataaaaag attaaggaat ttcattaaga acaaggaaaag ggatacaatt gaatagttac 60  
 atcataaacc atagactagg gtgactagtc gtcgatgac agagcacaac tcataatcct 120  
 atatgaaata gacatagaca taccaataag gaagaaacaa tgatcatgat ttgtccttac 180  
 gggggttgtct acacttcaca acttttataaa cctcaaaag ttctcaaatt caaaactagg 240  
 taaaaggtac taaagataca agatacgacc catatttata atttctcaa aagatgtcaa 300  
 tcagaaaagg cacactatgt ccgatgatgaa atccattacg acatgggcaa aaagtcatga 360  
 cgttgaagct ctgggcgttg tggattgact acggccctta tgagttgact acgaccatga 420  
 tggaatttac caccgaccatt gtcagaaagt tgggtgtggtt tggag 465

<210> 5942  
 <211> 168  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220076c03d1  
 <400> 5942

ggacctagtg ctgactccgt atngnanacg catattattg gcgaacctat ctgtcgcgcg 60  
 cggcggcgcg ttaacgttga cgatgacgac ggtgatgggtg ccaactgcccc ggccggagtga 120  
 aatcgcggtg gctgtaaagg tcgagtaagg ccgcgtggga gagtaaaa 168

<210> 5943

<211> 440  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220076c04a1

<400> 5943

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tgggcttctt tgaacaagtt gaagtttgat ttggggaatt taaggtttgg ggagaggTTT 120  
atgttttttg atttgtcttg taagtgcgtg tttgggaagg ttcctaacag tgttgatggg 180  
cttgagaagt tgaatgtttc ctataaccat gtttgtggtc agtcttccaa gaataagTTT 240  
tcggcatgtg cttttgttgg aaatgattgt ctctgtggtt ttcctttgct caccctgcaa 300  
catagcattt gtgtatttag ctttgttgct gatgatttca agtgtttaat ttcctttac 360  
tgctgagttt tgcaactaat tatgtctttt aataagttaa ttgttatttt aactttaata 420  
tttactatat atattaactt 440

<210> 5944  
<211> 445  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220076c05a1

<400> 5944

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ggggctactg acgaatctct tatcttcttc tgcttcctaa atgtgagttc attcatttga 120  
tgttgcaact tatagttttg ttttgtttga aattgaaata gtgaagtaaa atggagtctg 180  
gagctggagg cctagtgtcg tcgtctgaga aagaaggagc ctcgatatacc tattgggtta 240  
ggaaaataac ggaagatgca gcgcctttgc ctctgcctcg ttagctcaac ccagaagatc 300  
ttcctccttc ccaatctcaa tcttccacgc ttgcttcaac ttggaatcgc gctgggacat 360  
gggaggagaa aagtctaagc aattgggcaa ctctagaat taaggagttg cttttctcat 420  
tagctccatt cagttctcct ttggc 445

<210> 5945  
<211> 590  
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076c06a1

<400> 5945

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tattgtgata gcaggagttt ttgttggtact tatattcggc tacttggtgct gcatcatctg 120  
gagaaaatgc aaaatagaag ctgacagaaa aaagaagcag aaggaactac tattagaaat 180  
tggagtcagt tctgtggctt gcattgtgta tcacaaaaca taaagacaca gaaaacgtag 240  
caaggtcaac tatgaaatgc aaatathtag ctttccaatc attgctgctg caacaggcaa 300  
cttttcagtt gcaaacaagt tagggcaggg tggttttgga ccagtttaca agggagtact 360  
tcctgatgga caagaaatag caataaagag actttctagt agatcggggc aagggttggt 420  
ggagtttaag aatgaagctg aactggtagc aaaattgcag cataactaatc ttggttaagct 480  
ttcggggctt tgcatacaaa atgaagaaac atattaatct acgagtactt gccaacaaaa 540  
gtttagactt tcatttcttg attctaaaga atggaaaata gtttgagaa 590

<210> 5946

<211> 604

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220076c07a1

<400> 5946

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tcttcggttt caacgttcaa ccgcgatctc aaaaaacaaa actatggcat cactctcagg 120  
catttgctcc tcttccccga ctctcaaaaa attcccaaac caatccccat cgttgaccga 180  
ccctctccgc aaagaccacg tgtccttccc cgcacgcctc gccgatcgga ccctcagcct 240  
cgcgccgctc cgtgcggtgg ctccggaggt ttccgacgga gcgttggcgg cggcggtgaa 300  
gaaggggttg gagaaggatc cgcgcgcgct gtggcggaga tacgtgggtt ggctatacca 360  
gcacaaggaa cttgggattt acttgatgt gagtcgggtc gggttcagt atgagttcgt 420  
taaggagatg gaaccccggt tccaagcggc gtttccggcg atggaggagt tggagaatgg 480  
cgcgatcgct aatcccgatg aaagtcgcat tgtgggacac tatnggctga aggaccctaa 540

cgtgcgccca actcgttcct taaactcaga atgagacact ctgcacgctg ttgcaagttc 600  
gcta 604

<210> 5947  
<211> 199  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220076c07d1

<400> 5947

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acaacggcct accgcctact taacaaacta agcaatatta ttatatacgt ctttattttct 120  
cgccccaaagc cgactgccct aatcgaggcg aggttactgt tcaactctga caccggcggc 180  
atagagatcc actgtataa 199

<210> 5948  
<211> 472  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220076c08a1

<400> 5948

cacaaacccg tccctcacac tctccatacc ctagcggcac tacacactag ttctatcgct 60  
atctcccaa gatgtcgagc gccgatcccg agcacagaga agaggaggag gcacccgccg 120  
ttggcgacga cgaggacacc ggagctcacg tcgctccaat cgtcaagctc gaggaggttg 180  
ctgtcaccac cggcgaggag gacgaagatg caatcctgga tctcaaactg aagctttacc 240  
ggttcgacaa ggacgggaac cagtggaagg agcgtggcgc cggcactgtg aagttcctga 300  
agcataaggc ttccggcaag gttaggcttc tcatgaggca atccaagacg ctcaagatct 360  
gcgctaata tctcattttg cctacgatga gtgtgcaaga gcacgctggg aacgagaaat 420  
cctgcgtttg gcatgctagg gattttgctg atggtgaact caaggacgag ct 472

<210> 5949  
<211> 372  
<212> DNA



<213> Glycine max

<223> Clone ID: jC-gmfl02220076c09a1

<400> 5949

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cattctatac aggtagctgc attatgctac tctagccatt cttagagcaa tagctgcttc 120  
atctccatca aaggacaagg aaaacgtctc catcaaaagc attacacttt tctcaacctt 180  
cagttggaca agctgccttg aaggactctg ccaatagaaa cgaggaggctg caatattcga 240  
cgagctactg cgttcgaaaa gatgtggccg cacagatcct atccgctgcc gattgtcacc 300  
actatgatgc ccagactccg ccagggcctt gggaaaagga gactgacaac ctcatctttg 360  
agaaaacatg ag 372

<210> 5950

<211> 519

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220076c09d1

<400> 5950

aaaaaagaaa caccaatcat cgggcattta gttggattga acatttagag ctttaaaata 60  
atagcagttt catattgtct tccctacaaa caacagggtta cataaaaacg gaaacaaaca 120  
gaaccagttt tatagaacag taatggaaac tagatctagc cggaacagaa ccatcccctc 180  
aaaagagaca atcaaccggc aacaggaagt tgcggcatgt tatacatctt caagccaccg 240  
caatacatta ccaagttcaa aatcacatat catgttggcc ataactctcc tctctctctt 300  
cctctcata ctcatctca tcagcagtgg catcctggta ctgttgatac tctgacacaa 360  
gatcgttcat gttgctctca gcctcagtga actccatctc gtccatgcct tccccggtat 420  
accaatgcaa gaaggccttc ctctgaaca tagcagtga ttgctcactc actctacgga 480  
acatctctg aatggaggta gagttgccaa tgaatgttg 519

<210> 5951

<211> 361

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220076c10a1

<400> 5951

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gatgatcccg ccacagatca cattgtgtct agggggcgaag acaacaccac cttcgccgct 180  
aggcgtcctc ctgagttgga aagagacctt gttcctaact acttgaaaca caacaacttc 240  
tcaagctgag ttcgccagct caacacctat ggggtctagaa agatagagcc agaccgatgg 300  
gaggtcgcca acgaattctt ccagaaagga gagaaacact tgctgtgcca gatccataaa 360  
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<210> 5952

<211> 320

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220076c10d1

<400> 5952

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gtacatcttt tggaggaaac caatgaaact tactgagtga cattcttgaa gtaggaattt 120  
gaattccaag ggcctggacc cttttccttt cttagtacat ataaaaacct acctactctt 180  
gaaatccaca attgggggttg aatagtataa tgagcccatg tttagggcaa aaatacatta 240  
aatgtcaaaa tcaaggcttt ttacatagt taaacccga ggaagcttga atttaggatt 300  
ttgctccaag aaagccggag 320

<210> 5953

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220076c11a1

<400> 5953

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tcaatcatcc attcattatt catcatgtcg tcggcgaaga aaatcacgct gaagagttcg 120

gacggcgagg ctttcgagga ggaggaggcg gagggcgctgg agtcgcagac gataaagcac 180  
atgatcgagg acgactgcgc cgacagcggc atccctctgc cgaacgtgac gagcaagatc 240  
ctggcgagg ttatcgagta ctgcaagaag cacgtcgagg ccgcgaatcc cgaagacaaa 300  
ccctncgagg acgatctcaa ggcttgggac gctgaattcg tcaaggtcga ccaggccacg 360  
ctcttcgac tcactctggc tgctaactac tagaacatca agagcctgct ggaccttaca 420  
tgtcaaaactg tagccga 437

<210> 5954  
<211> 471  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220076c12a1

<400> 5954

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ctgaagacat tcctgttcag tatggaggac tgaatcgcc cagagatttg cagaaaggtc 120  
cccaaaaacc tgcactcgag ttcacaatca aaggaggaga gaaagagaac atacaaatag 180  
aaggaataga ggctggtgca actatcacat gggacattgt agagggaggg agggacttgg 240  
aatacagagc tgagtttgtg ccaaagtctg aaggaagcta caccatagct gnagagaagc 300  
caatgaaaat gggggcatca gaagaagcaa tccacaactc attcacatca aaagaatctg 360  
gcaaaatggt actctcggct gacaacactg cctcaaagaa gaaaaagggtt gctgcatatc 420  
gctacgttgt ccagaaaagc agcaccattt gagaatggct attattaaat a 471

<210> 5955  
<211> 476  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220076d01a1

<400> 5955

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caaaacgcgt ccattggatc catcaacgca cgccaaaaat ctcgtctttt tgcgtttccg 120

ttggtgggtt ttcgttttcc tcagtgttct tcagcgatct tcttctgggt ctgtgaaaag 180  
 ctcggtgctt tgtttcggaa gcaccgacat tgggtaacag tgtgatgggtg aaatcggaga 240  
 ttgagaagaa gggttgcagc acaagacaat ggctttggct ggtgatggct ctcgtcgctg 300  
 tttttgttgc catggccatg tctttcaaaa cctctccaaa agctctgttt ggagccattg 360  
 atagagcttg tccgtgtgct cggggcacac cgaagtacag tggcatgggtg gaggattgtt 420  
 gttgtgatta tgaaactgtg gatcgtttta atgaagaagt gttgcaccct ttcctt 476

<210> 5956  
 <211> 569  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220076d01d1

<400> 5956  
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 ggtttttcta tgtctagtct ctctagtaat ctgaatcatt aaaaacagaa ctgtaaccaa 180  
 ttatagcttg cagattgcaa acatgtaata ctcagtttgg tacaacaaac gggaaatatg 240  
 acaaatactc agaagagagc atgttaccta agtttttagat acataggacc aaattttttt 300  
 ccatgagcta atcagtgttc ttgtatgagc agaaaaatgt cctccttcca tgattctttc 360  
 agctgtaggt ccacttcgt ggacgaattt gacggattcc gagagtcgat taagaagggt 420  
 cgtcaatgca attacctcat tcctttgcag ctgcagtgtg tgactcgagt tttcttgacc 480  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220076d02a1

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 ttgggtgggtt ttcgtttttcc tcagtgttct tcagcgatct tcttctgggt ctgtgaaaag 180  
 ctcggtgctt tgtttcggaa gcaccgacat tgggtaacag tgtgatgggtg aaatcggaga 240  
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 <223> Clone ID: jC-gmf102220076d03a1  
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<210> 5959  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
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<400> 5959

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ctcggcgcg cactcgtcgt caactacacc tgcaactcgg cccaagccga ctcagtcgcg 180  
ggcgagatca acgcccgttc cgccaccacg acaccgcg cgcgtcgtgtt ccaagccgac 240  
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ccgatccaca tgcttgctcaa ctcggcgggc gtgatcgacg gcacgtatcc ctccgctcgcc 360  
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<210> 5960

<211> 492

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220076d04d1

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ggctgggatt attattgtca ttatttttgt tctgcctttg gggtatatca aaaacagtaa 180  
caaccattaa agccgttgtg aagacagcca gacatgctta ttaacattta catgcaaata 240  
ccagccatta cttcataata gtatcctatg ccaaatacag tcaaagccac cactgaatcc 300  
agttacttgg aacacttaga agataataac taaaaagcta taggaaaatg attacaactt 360  
ttgagccaaa atggaagccc aaataattgt acaatgccaa ctttagcaac cgggtggacgg 420  
agtacatgat cctgtgaggt atccacggcg ggcggaggca taaattgccaa catggcaact 480  
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<210> 5961

<211> 499

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076d05a1

<400> 5961

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tctccgacaa tctcctcgtg cggcgaggat cctcgccttc ggtctcaaac ttgtaccaac 120  
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tcttgaacat cttcacgttc ccaacaatga tcccaacatg caagtggctc acgattccgt 240  
cgcagctctc cgtgactcct tcccttggcc gaaaagtcac cggaaccctc ttcgggcacc 300  
gtcctggaca catctctttc gccgtgcagc tccacccccg cgccgatccc gtccctctac 360  
tcgagctcgc catgtccacc tactcgctcg tcaaggagat gtccctctggc cttgtgcgca 420  
tcgcgcttga gagccagaaa ctgtctgcct ccactattac gcgtacaatg cgtagcaata 480  
gtggcagaca gcaacagtg 499

<210> 5962

<211> 536

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076d06a1

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tattcttcag aatcctggca catactttat cttgtccgtt ttctgacccg gcggtggagt 180  
agaattcgcc gccactggaa acgaaacttg ccctctcact gtcgtgcaga ctctcttcgg 240  
gaggggcttt ccagcaatat tctcgtcccg ggtacgaatc cctttcatcg gcgaaggaca 300  
actcttcagc atcctgttcc gtattgtgcc atgggtgcgc accactcctt ctaagtggac 360  
cattgtggag gggttaccag aatcaccgcg ggttaaaactc actgggtacg acaacacagt 420  
gcctggcgag tttaaaattg agaaagctta cccttttcat acgactatac ccttttggtc 480  
tgccagctgg cgaataaagc aatgtgggca tattgggatt atttcgatga tgatgg 536

<210> 5963

<211> 490

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076d07a1

<400> 5963

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tacggggcgc gtggcacggc gccaaaatcg tcgacttggg cggcgtttga tgattacggg 180  
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gtcaagctgt tggccgaaag tgggggtcag agcactatgg atgttctctg tcagattggt 360  
ttggatggaa ttctgtatgt ggatccaaat accagccgga cattgagaat ttattctctt 420  
gagaacataa caagatgtga tagaatcgat tcactacct tgcattttgg tcaaagagtc 480  
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<210> 5964

<211> 322

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076d07d1

<400> 5964

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atttttgggc atgcatgcat gggggcatgc tttttaacct tttaaaaaaa gggggggaga 180  
aaaaaaaaac ccaccgcccc cacaattaag ggtaaccaat ttgggtaaaa agggctacca 240  
actttgcagt ttagggcccc ggaatttcgg ggcaatctac tagcgggggg tccctttctt 300  
gggtttaaga agagaccctt tt 322

<210> 5965

<211> 580

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076d08a1

<400> 5965



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 atgcctgaga atcgccaccc ccgttgacca gcttccaagg atcgacgcgc agcttcagca 420  
 gtcgcagcgc gtcgtcgaca agtactccgg catcggaac ggaaacggcg tcgtcgacga 480  
 caaagagctt gatcaattca tgacgcatta tgttatactg ctctgtgctt tcaaagacaa 540  
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<210> 5966  
 <211> 61  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220076d09a1  
 <400> 5966

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 g 61

<210> 5967  
 <211> 345  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220076d10a1  
 <400> 5967

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 gccgggtctt tcatagatct ggagcgtagt ggctcagatc tacgggaccg aggtactaca 180  
 gagaatcgat gactagatcg cagatccgac ggtagatcct gccgattccg cttgttcgat 240

cgctacagac ccctgtatcg gatcattaag cagcgtgtct cgcgcgttct acacgtgttg 300  
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<210> 5968  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220076d12a1

<400> 5968

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atagatgtgc aaatgaataa ttccaaatgt tgaaccagta attgagaaag ggaactctta 180  
tccagagaca aagactatct ccacccaaaa tggaagtga gttggaacac aggataaaga 240  
tattggagag gaaggctttg gttcagntga agtatatgat caatggattg cacctccagt 300  
atctggagga aatccaaaag cccgatatga gcatggagct gcagttgagc aagataaact 360  
gnacatatat ggnggaaatc acaatggncg ataccttaat gatct 405

<210> 5969  
<211> 507  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220076e01a1

<400> 5969

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cctctgtatg ttgcccttgc acagagaaaa gaagagagaa gagcaagggt acaggcacia 180  
ttttcacaga tgaggcctgt tgcaataacg cttctgttg cgccccgtat gcctctctac 240  
cctcctgggt ctcttggtct tggacaacaa tttttgtatg ggcaaggacc cccagccatg 300  
atgcctccac aagctggatt tggttaccag cagcaactag ttccgggaat gagacctggt 360  
gggtggtccca tgccaagctt ctttgttccc atggttcagc agggccaaca agggcagcgc 420  
ccagtgggcc gtcgaggaac aggtcctgtg caacaacccc agcagccaat gccaatgatg 480

cagcagcaga tgctttcagg ggacgtg

507

<210> 5970  
<211> 561  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220076e01d1  
  
<400> 5970

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tgaaaccaa acaaccaaga acataaactt ccttagtact ctgactaaaa caaaacatct 180  
aagacacctg caaataaact ggtgggtagc gtacgggata gaaataactg gtgtacagat 240  
tcttgtcaaa tgactaacgg aatctaagac acaagattgt cattgagaga gaggtaggct 300  
agttgatcag ctgggttggt ttgctgttga gcaacatttc tcaacacatc catggcttca 360  
gcaacttttg ccttcagagc atctggtgac tcaatcagat gtaaaacttc aggctgggtcc 420  
atctccagaa gcatgcctgt aacctttgca gcagaatcat gttccagctg atccacaagt 480  
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gtagccaaag cttgaatggg c 561

<210> 5971  
<211> 615  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220076e02a1  
  
<400> 5971

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tgtccctgt tcctgcggac atagacattg caaactccgt tgaaccggtt catatctccc 240  
agattgcaa agacctcaac cttagtccca atcactatga cctttacggt aaatacaagg 300  
ctaaggtttt gttgtcgggt cttgatgagc ttcaaggatc agaagatggg tattatgttg 360

tggtcggagg cattactccg actcctctcg gggaaggcaa atctactact acagtggggc 420  
 tctgtcaagc tttatgtgct tttcttgata aaaaggtagt cacctgcctt cgtcaaccat 480  
 cgcaaggacc tacttttgga attaaaggag gtgcaactgg tggcggctat agccaattat 540  
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 ttttagctgc tgaat 615

<210> 5972  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220076e03a1

<400> 5972

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 ccatgcaaac ccaccaaacg tagcatacca aaaggccatt atgtttccaa agtgtcatgc 180  
 aacagtcacc aaaacacctc aacatcaaac ccataagaag acaaaccatc gtcatacaac 240  
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 gctcttagca acaccaaccc tttagccatg gctgcagctt ctattctcga gcctgacctc 360  
 gaacattggt gtataactga tgatgtacca cctaaagggg tcatcgatgc acaagtctat 420  
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<210> 5973  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220076e03d1

<400> 5973

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 tggatatagg tgccaattaa ttacttctcg tcccattaga cactatgatt gtattaaagc 180  
 ctcttcagtc acgtacaaaa cctgtcgaat ttgcaatggc ttgtgctcat tctcacggat 240

gaatctctag agccatttgt tctactttca cttcgctttg ctttaaatta gtgtttggtg 300  
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 gaagtgggtcc ttcaaagttg ttcttctcca aatgcaatgt ttctaactcc ttcagtcac 420  
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<210> 5974  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220076e04a1

<400> 5974

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 aaatccaaac gtcattaaga ttcttgagga gttcccacca cgtagcaagc tagatacaca 180  
 agcctacggt gatcacacct gtataataac aaaacaacat ttggaaccta acttgggtgg 240  
 gctcactggt gagcaggcta tccagagcaa gaagctgttc atcttagatc accatgacta 300  
 tctcattcca tatttgagga aaataaatgc aactaccaca aagacttatg ctaccagaac 360  
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<210> 5975  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220076e05a1

<400> 5975

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 ttgttggttg ctgctggggg tagtctctgt gcaggtttgg gtgttttctg aggagagcc 180  
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tttggctcag ctagtaacat ccattccaat ggtgaaaagc aatccgaaaa tgttgctcat 300  
 ataccttctg ttggcaacaa ccagactacc aaggtgagga aaccatatgc cactactaaa 360  
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<210> 5976  
 <211> 539  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220076e06a1

<400> 5976

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 cggcatcggg ggtctcctct tcggctacga cactggtgtg atatcagggg ctcttttata 180  
 cattaaggat gatthttgagg aggttagaaa cagcaatctt ctccaggaaa caatagtcag 240  
 catggctatt gccggggcaa tcgtgggagc agcattgggt ggttggatta atgatgccta 300  
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 ggcttctgct ccagatcctt atgttctcat tttgggacgc cttctggttg gtttgggtgt 420  
 gggcatagct tctgtcactg ctcccgttta tattgcagaa gtttcacctt ccgaaataag 480  
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<210> 5977  
 <211> 140  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220076e06d1

<400> 5977

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 attgaacacc tcggaatacc 140

<210> 5978

<211> 521  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220076e07a1  
  
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<210> 5979  
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 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220076e08a1  
  
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<210> 5980  
 <211> 393  
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 <213> Glycine max

<223> Clone ID: jC-gmf102220076e09a1

<400> 5980

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tatatcccg aaattggggg accctggaaa tgggaccttt ccccttttgg ggagcctttt 180
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ggcccttgtt ttacacattt taaaattctg cccttaagag tccggtttta gaaattcccc 300
aaaaaaaaa aaaagggggc ggcccccat ttaaagcccc gccgccccga atttttattg 360
cggaccgggc ccttgagag ttcccgcttt ccc 393
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<210> 5981  
 <211> 553  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220076e09d1

<400> 5981

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gtaggttatt tccagacatt aacacaactt tatttcggga agagattgta ctagaaatac 60
aagtagcgac taaaattaca aaaactgcat ggcttttgtc acagatacga atacttcctc 120
tttctatcta tctatctatc tctgagttcc tgttogaatt gcagcaactt ttcccgaaca 180
ggctgtaaaa atagcttcaa gtcgttgccg atctgtgtct tgtcttgatg caagatatcc 240
cttgcttcac tcagtctcac ttccacctgc aagtcactta gttcaccaaa tgagaactct 300
gggacatcta tatgaccccc aataaacttc ttctctcctt gtatgatcca ttcccccttg 360
acttttaagg tcaactcata tgtataacca acacgtttct tggtccgaac tatcaccatg 420
aatgcaacat tttcctaata atctgaacct gacgagtacc ttgaaaaaat ttagctgaaa 480
aaaacctgat tctatcgcca acgcattttg ttacatcttt tacttctgcc ctgccaagga 540
gaactgaatg gag 553
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<210> 5982  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220076e11d1

<400> 5982

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aggcagcgaa aggaacaatt ttattaatta tatttaccga ctggattctc catttggtta 60
cacgtagttc caattcagaa caccaaaaca ctttcaagaa tttgtcttaa cagaaatttc 120
cactttcgtt aatgatggag attcaacatt gaaaccaaatt tattgcaggc aacttctctt 180
ctgttggtcc gtgtattcaa acacaattgc aacattacca aaacatgaat tctggtagtc 240
gtctaactca tgcatacaac ccatcaatgt tacattcccc aagaaaaacc ttgatgctgc 300
gtgggaacc acagctgcct tcgacaatca atgctctgtc attggcagcc atgtgtgcga 360
taatcttgta aatcatttcg atatcttcag gagcatggca acggtctgct acttcttcga 420
gggtcaatgg ttctacaggt tctttgcagc ttgcctcatt tagcactgcc aacactcgc 479
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<210> 5983  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220076e12a1

<400> 5983

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ctcctaggaa gtcaccctc tgtctctagg ttgggagact gccgnggag agatgactgt 120
cctgatccct aagaacacta caattccaac aaagaaggaa caagttttct caacatactc 180
tgacaaccag cctggagagc ttatccaggt ctttgaggga gaatgagcaa ggaccagaga 240
taacaatttg ttgggcaaatt ttgagctatc tggcattcct cctgcacca ggggtgttcc 300
tcagattaca gagagctttg acattgatgc caatggatc ttgaatgtct ctgccgaaga 360
taaaaccact ggccagaaaa ataagatcac tatcaccaat gacaagggtta 410
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<210> 5984  
 <211> 512

<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220076f01a1

<400> 5984

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actctggaga accctttttt gttctcaaca gtgatgttat cagtgagtat ccactcaaag 180  
aatgattga attccataaa aaccatggag gagaggcttc cataatggta accaagggtg 240  
acgagccatc aaagtacggc gtgggttgaga tggaagagag cacagggcag gttgataaat 300  
ttgttgaaaa accgaaattg tttgttggtg acaaaatcaa tgctggaatt tacctgctga 360  
acccctctgt tttggatcga attgaactga ggcccacttc tatcgagaaa gaggtgtttc 420  
caaagattgc ttccgagaaa aagctatatg ccatggctct gccaggattt tggatggaca 480  
ttggacaatc gaggatttta ttgctggcct ga 512

<210> 5985  
<211> 514  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220076f01d1

<400> 5985

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actgaaaata catcaatgca atggcgctcac tcattctaata ccaaaaactg acttatagaa 120  
aggaaagaaa tgccatgaag taaaaaggaa aaccaaataa aacggacaaa catattccag 180  
actcaataat ttttctacct cctcaccaca tggtagcaat ttgaacatca ttgacctcac 240  
tcacatgaca atctccggtc tcagaatatt tgacttgatc tccttggtgc gcaaaacaac 300  
accaccattg ctgtaaattt catcacatac atggacatct tctccaagga tggatcatatt 360  
atccactcga gccattgcc caacagttga atgccacca acaatactgc tggatacaca 420  
agcatgcttc ttaactcgga cttcacgcat tattgtgcag cttttgagtc taacaccttg 480  
ctcaataacg cagccaggac caattgcaac atta 514

<210> 5986  
<211> 73  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220076f02a1

<400> 5986

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tggaggtggt aaa 73

<210> 5987  
<211> 543  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220076f03a1

<400> 5987

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atcatcttct tcttcttctt cttcttcttc ttgcatttac atcaactctt ctcccaaccc 120  
ataaaaaaaaa aaaaaaagtt cgtattttcc ctcccatgat cgaccctcat ggtcacagac 180  
tccaagccca tcattccccg gcgcggcctc gtcgctggca actactgtca tgacgtcctc 240  
caccgcgacg gcgagaccgt cgccgagacc ctggcgggcg ccgcctcctt catctccgtt 300  
atcctcgatg cctctcctt tcccttccac accgtctcca aggtggggccc caacttcgcc 360  
tacaccgccg acacatcgaa tcaccccccg ttaataatcc caaccttcca aaccacgctc 420  
ttccacgctc acttcgggtc gggccacccg gaccgtctcc tgaaccgcgt ccgatactgc 480  
gattcaatcc aaccacccga cctcccggac caacaacccc ggttacgggtt ccgactcgcg 540  
gtc 543

<210> 5988  
<211> 532  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220076f03d1

<400> 5988

aaatccaacc cctctctttc ttttttcgca tctaaccctt catttatgtt tttttccaaa 60

ctaaataaac ctgaagcaca ggatcatcca aagagggtca gaaacaagcc aaagaaattt 120  
 caaatttgcc atgaaatttc actttccatc attccattcc aggctactac tcttggcttc 180  
 tctcgtcccg ttccactgt acactaacca atattattat tccctaaaaa taaaataaaa 240  
 aaaggaaaac agcttctctt tttttttttc tcttcccttg atcatagttc ttcataaacc 300  
 tcattttgtg aaaacactaa ttaggtcata ataataataa taataataat aattacgaat 360  
 ccacctgct aatcccaatt ctcttcaccg acacgttctt aaacccttcc atcatttcca 420  
 taccctgaaa acacatcacc ccattctgct gctccatgta actcctcacc tccttcctta 480  
 tcattctcatg catcacgcc ataaactccg cattcaaatt caacgcttct aa 532

<210> 5989  
 <211> 471  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220076f04a1  
 <400> 5989

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 ggaagatcgt gcaggacggg ctctgtgttca ggcagaactt ccccataagg tcttacgaaa 120  
 ttggcgcata caaaactgcg tcaatagaga ccttaatgaa tcatttgcag gagactgcac 180  
 ttaatcatgt taagaccgct gggcttctag gtgatggatt tggttccacg cctgaaatgt 240  
 gtaagaagaa cctgatatgg gtggtgacta agatgcaggt tgtggttgat aaatatacta 300  
 catgggggtga tggtgttcaa gtagacacgt gggtttctgc atcagggaag aatgggtatgc 360  
 gtcgtgattg gcttgtgctg gacgccaaaa ctggtgaaaa cttgacaaga gcctccagtg 420  
 tttgggtcat gatgaattaa ggtgccagaa gactgtctta aatttcccga a 471

<210> 5990  
 <211> 190  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220076f05a1  
 <400> 5990

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gggacttcga ctgcaactgac cccggcttct aatgcacgct ctactgccgc tataagggta 120  
 agaacctctt attccttgtc gatatgctct gcgacttatg cctaccttac gggtgctttg 180  
 aatagtcttg 190

<210> 5991  
 <211> 498  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220076f06a1  
 <400> 5991

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 gaaactagtt ggtagatct gaaattctcc taagatggat acttcttata ggactgggtg 120  
 agtcaagtac gagtgcctgc tttttgatat ggatgacact ctttaccat tgagcttagg 180  
 tctcaatttg ttttgtcgca tgaacatata agagtatatg ttagaactct tgcataatgaa 240  
 gagagtgaag tgccaaaaat gtgtttggat ttgtataggg aatacgggac aactatggca 300  
 ggattaaagg tccttggtta tgagtttgac aatgacgagt ttcattgctta cgtgcatgga 360  
 aggttaccat acgagaaact gaagcctgat ccagtattaa ggaacctttt gctttacatg 420  
 cctcagcgta aaatagtatg ttaaggaaat gtcaaaccct ctacataaat ttgcacagtg 480  
 aggagcattc cacaatat 498

<210> 5992  
 <211> 475  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220076f07a1  
 <400> 5992

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 actatccttc ttgccactac atggcaagcg gtcgctagac gccacattat tccaaaacac 120  
 tcaaacaaag gggacaagaa agagcctcaa tttttgttcc ctccggaagg taatttccat 180  
 tttcctggct ttgggggagt agggctgcca cctttctttg ggtttacacc tcaaagccca 240  
 aacactggtg gtagtggact agggctcagga ccactaggtc gtggttatgt tccaggtggt 300

gatgacacct ttgtcccaaa ccttggtttt gagtttccaa accctggcag tgggtggtgga 360  
gtttcagtta atccgtgagt cctcccagtt atgagctatc atgcattatg catgattgca 420  
ccttttgaca aattgtagta actagtctcc tgtttttggt actcgtgaat aagta 475

<210> 5993  
<211> 501  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220076f07d1

<400> 5993  
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ctttgggtta tatcaaaac agtaacaacc atcaaagccg ctgtgaagac agccagacat 120  
gcttattaac atttcatgc aaataccagc cttacttca taatagtatc atatgccaaa 180  
tacagtcaaa gccaccactg aatccagtta cttggaacac ttagaagata ataactaaaa 240  
agctatagga aaatgattac aacttttgag ccaaaatgga agcccaaata attgtacaat 300  
gccaacttag gcaaccggtg gacggagtac atgatcctgt gaggtatcca cggcgggccgg 360  
aggcataaat tgccacatgg caactcccgg atagctgatg aaaggcacca acttgttgcc 420  
aggggcttgg ccttgtggag caaatgcagc agggattgca ggagggggtg gcaagaaagc 480  
angttgagca ttcattgatt t 501

<210> 5994  
<211> 254  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220076f08a1

<400> 5994  
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gttatttttt taatcttttc ttttttatca ctatctatac gaaacaataa aacgacccat 120  
taatattatt aaaaaacatt acaaaaacaac ccacccttac aaaccatact taaaatacag 180  
ataaaaacaa tatacctttc ccacaaaacc cctaaacata ctaaaaaata aaaattcact 240

ctctttatac cacc

254

<210> 5995  
<211> 388  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220076f09a1  
  
<400> 5995

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tgggtgacct tttcccttcc aatccctca attttaatcc ctaataaccg gcgagcctcc 120  
accgtagtat catgcacctc ctcacacctc accaccaaca accactocca agtttcttcg 180  
ccgccgaaca tcaagagacg aggcccgccg ccgccccgcy gcggataacg acttcacggc 240  
gaagtacgtc ccttcaacg ccggcttcga ctgcgcggaa acctactcgc tcgacgaaat 300  
cgngtaccgc agccgatccg gcggactcct tgacgtgcag catgacatgg tggctttatg 360  
gcgcttcgac ggcgcttct ggcgcgcg 388

<210> 5996  
<211> 461  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220076f10a1  
  
<400> 5996

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atcaaaggaa gaggaaggca ttaggttagt gttggcgagt gccacagaac ttggtttgaa 120  
aatcagcaac tgcattccaaa gagccacctt taatggcccc tcgccgcacg ccgatgacga 180  
cgacgatgaa gccaccgaac gccttctcaa catttgcat gcccttgaag ccttggagac 240  
ccagctctct tgcttgagg ttctgcaaca acaactgcaa gatgaaagag aaattgcctt 300  
ggctgaaatt gaaagcagtc gccatatgtt aattgaccag ctctgggagt actaaggtaa 360  
ggaattagaa gtgataaatt gaagcttctt cttttgctag tgaaacagag gagcccaaca 420  
atgatctatt acttccacca gatcctagcc accctccata c 461

<210> 5997  
<211> 452  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220076f10d1

<400> 5997

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cagaacagaa gaagaaaaag aaactaagaa ctctatgtaa gagatgcaac ccatacataa 180  
tctggcataa aaaggaataa gggttgtttg ttctatttag tctggcaatt aaaaatttat 240  
ttattacaac caaaccattc atttagtctt acacttgtct ctactcact cactgacaga 300  
gagcacatga tgtttttttaa gggccagtga tgctcatcc ggtgctgatg atccaaattt 360  
ctgaaactga acccttaata tattctctc agacaccacc aaacgctgt ttccatcatc 420  
atcgaaatga atcccaatat gccacattt gc 452

<210> 5998  
<211> 360  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220076f11a1

<400> 5998

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aaaacatcca agggtagtga gtgtttctgg ggctctacag ttcctactgg ccggttcggt 120  
taggttcatt aggctcatgg cgcaaaccctc tctcgaaggc attcagttca acgaggaaat 180  
ccaaggcctg atggctgctc cgagaccgga aaccgactat tccttgaagg cgctgctcga 240  
gcttccgacg acgcaagccg ncgagctcct acactcgcct gatcgcgcca gaaaaccgnt 300  
gcgccacagg ccgaaacctc caacgccacc ggcaccgaat ccgtcatcct nagcttgctt 360

<210> 5999  
<211> 562  
<212> DNA  
<213> Glycine max



<223> Clone ID: jC-gmf102220076g01a1

<400> 5999

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agcggtaagg cagcgtataa ttgatggttt taatccaaag gcacttgaca tattttaaag 180  
agagtttgat ttctttgaca aagttacatc catctctggt gtactatttc cactccctaa 240  
agaagaacgc cgagctggta tccggaggga gttggagaaa attgaaatgg atggtgagga 300  
cctttattta ccgacagctt ctaacaagct tgttaggggt attcgagtag atagtggat 360  
tcccttaciaa tcaggtgcta aagtcaccaat catgataact tttaatgtaa ttgatcgata 420  
tggggatgag aatgatgtta agtcacatgc ttgcattttc aagggtggag atgactgtag 480  
acaagatggt cttgtcctta agttatagca ctacttagag atttatttga gccgttgctt 540  
aaaactttat ctatttctta tg 562

<210> 6000

<211> 570

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076g02a1

<400> 6000

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ccactctatt cctgttctta ttctatttcc cctcgttca tgctctttct tacgaagctg 120  
cttatattag agatggctc aaatcctatt ccagcttga tctccctcac tccgtttttg 180  
gttctgaaag tgtagccttc gattgccatg ggaaaggacc atatggtgga gtgtctgatg 240  
gtagaattct caagtggcaa gagacaaaga gagagtggat tgactttgca gttacctcgc 300  
cacacaggaa caagaaatta tgcgacgggt tacaaaatga caagatggaa tcaatgtgtg 360  
gaagaccctt aggcctcaaa ttcaacactg taacttgtga actgtacatt gccgatgcat 420  
actctgggct tctgggtgga ggaccaagtg gtgggtgtggc aaagcaatta gccacttctg 480  
ctgaaggggt ccatttagg ttcacaaatg ccttggacat cgacaccaa actggtgaag 540  
tatttttaca gatagcagca tcttgttcca 570

<210> 6001  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220076g02d1

<400> 6001

gggaaaaatt aaaatcccct ttttaattat ttttaaaatc caaaaaaaaaa tttttaaac 60  
 cccttttcag aaatccaaca tcaatcactt attctcctca aattcccact tttaatgaat 120  
 cttaattcta aaattttacc cgaaaataaa ttccaccacc cccaaaaatt ttttaggtat 180  
 tttaaaatct ttcttaacta tagccttaac taaatttcac ttgacacata ctaaaatctg 240  
 tgctaaatta aaaatTTTTT acccctcta tataagtatc atctttgacc ccctaataat 300  
 tctttcccaa accccttaat aaaagcccta tccttcatta caccaccaa tgggtcctcc 360  
 atcaatcctt ccccaaaatt 380

<210> 6002  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220076g03a1

<400> 6002

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 gcttgcgtag ctatagaact gaaggggcat cagaaccaga gtggaaagaa gtaaccgtca 120  
 gatcaagtac tgagatagtc tttcagcctg aaaatgcttc aaaagttcga aagtttaagc 180  
 tctcttcagc gagctctatg cttcttagcg cttgaagttg cccaaactaa ggaaagttaa 240  
 tttagggcgc tgatttttgc agatggcatc catcgctcgt ctatccatat gcctcttcaa 300  
 gcatatgtaf attcttcggt aagctacatg aaatggatac attactagcc ttagaagata 360  
 tcaatacagt cagatgtcta ttaccgcgag cttgtattat gtatatttta atataattaa 420  
 cagctcttatt taagaaataa ccaagaattg caaatgaaaa aaaaataggg cggtcgtcga 480  
 ctagtgag 488

<210> 6003

<211> 554  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220076g03d1

<400> 6003

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ttgccttcat ataaatacct tctatctctc tatattatct agggaaagaa tgaaacccta 120  
acaataacaa aaattatttg aacaccgggc agaccaatc taactttctgt tgagcaagca 180  
ccagggtcaat taaaaggaaa agttgggtcct tagggcttcc tcagggcaga tgctgcaccc 240  
attacaattg ccaggacaag gccaaagacca gcaccaacgg atgctccac agcagcagaa 300  
ttcaatgaat ttgccttaac ttgagcatct ctacttgctt caatcgacat tgcttgttct 360  
cgtgccaaact ccatcagaag cctatctctt gcaaattccc tgaaaaattc cccacctgaa 420  
aggaagactc ctcacgactg cggagtatac agtggatttg ctgacaaaga gaatttacgc 480  
ctttcactgg aaaaacaatc tccttttttag gaaaggcttc ctaataaagt aataggagca 540  
aatatagctt ttca 554

<210> 6004  
<211> 567  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220076g04a1

<400> 6004

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gttccaaagc ctcttgttga ttttgctaac aagcccatga ttcttcatca gatagaggct 120  
ctcaaggcca ttggcgtcaa tgaagtgggtg ctagctatca attaccaacc agagggtcatg 180  
ttgaatttct tgaaagagtt tgagacaaag cttggatatca aaatcacttg ttctcaagaa 240  
actgaaccgc taggtactgc aggccccttg gctcttgcca gggataagct aataagtgc 300  
tctggagagc cattttttgt tctcaacagt gatgttatca gtgagtacc acttaaagaa 360  
atgattcaat tccacaaaac acacggagga gaggctacca taatgggtgc aaaggtcgat 420  
gagccatcaa aatatggtgt ggttgtgatg gacgagacta cggggcatgt tgagagattt 480

gtagagaaac caaagttggtt tgggtgcaac acaatcaatg cttgaatcta cctattgaac 540  
ccctcagttt tggatccgat tgaactg 567

<210> 6005  
<211> 509  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220076g05a1  
  
<400> 6005

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ctgaagaggt tcttgaaaaa gcactattga tgattcaaaa ttcccagaag aattacctct 180  
ataaatgcga ccagttaaag tctattcgtc aagacctaac tgttcaacga atacgcaatc 240  
aattaacagt caaggtgtat gaaacacatg cccgattggc actggaattt ggggacctgt 300  
ttgagtataa tcagtgtcaa tctcagttac aaactcttta tgccgaaggc attgaggggt 360  
ccgatatgga atttgctgct tacaacttgc tttgtgtcat aatgcattca aataataaca 420  
gagatcttgt atcatcaatg gccagtgtat cttacgaagc aagaaggatg aagctgtaaa 480  
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<210> 6006  
<211> 494  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220076g05d1  
  
<400> 6006

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accagataca aatttttcac gacatatgat attacaaatg actaaaactt ctagataaca 120  
acgaacaaaa gctatataat gaattcccac actaccacgc agttcaaaat tattgcatac 180  
caataatttc aagaaccctt attaactttc actttcaaag ggattggtac aacaatatca 240  
tatgctaata aatataatct taagatgaag aagcaggttt ggaagatggg ttgaaaggaa 300  
cctgctcagc gcatgtaagg atttcatggg gcccagcctg ttctcgacca acacctagaa 360

ggccaagata atactggtaa tgggaaacga tattgttcat cgagtccaca tcaccttgtc 420  
 caccacacc atccccatag agaatgttca ttgtagtgcc aaatccagga agacgattct 480  
 ccatagtatc attc 494

<210> 6007  
 <211> 553  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220076g06a1  
 <400> 6007

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 gttcttgtct cttttcttct tggggacatg gcctgctctt ttgactatgt tagagaggcg 180  
 tggctgctct cctcagcata cctacctga ttactcaatc accaatttct tggctgcttt 240  
 actcattgct ttacacttg gtgggatagg caagggcaca catgatcagc caaatttctt 300  
 agttcaactt gctcaggata actggccctc cgttcttttc gcaatggggg gtggtttgtt 360  
 ccttagcctt gggaatctgt cctgccata tgcatttgct tttgttgggc tatcggttac 420  
 tgaagtgatc acggcaagca taactgttgt cataagcaca accttgaatt actttttgga 480  
 tgacacaatc aacaaagctg agatcctttt cccaggagtt gggtgctttc tgattgcaag 540  
 ttttctaggt tct 553

<210> 6008  
 <211> 581  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220076g07a1  
 <400> 6008

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 tgcattgtgt tggagctcga ggtgcttctg gttttgcatt acctgttga attgaggcat 120  
 ttgaagagtc gggctcgtca cttgtacgtg gaactttgga ttatctgcaa ggtctcaaga 180  
 tgcttggagt caagagaatt gaacgggtac ttccagttgg aacttccttg actgttgttg 240

gtgaggctgc taaagatgat gttggcgcta ttcgaattca gcgacccac aaagggccat 300  
 tttatgtctc tcccaaaaca attgatcaac taattgcaa tctggggaaa tgggcaaggt 360  
 ggtataagta tgcttctgtg ggcttgacgg tgtttggtgc ttatctgata gccaagcatg 420  
 ctattcggtta catattggaa agacggcgcc gtagcgaact tcaaagaagg gttcttgctg 480  
 cagctgctaa gaagtcggga caaaataatg atgttgaata ggccgacagc ttatcagatg 540  
 gtgctaaaat gatcgctaat gccagattgt gtgtatatgc c 581

<210> 6009  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220076g08a1

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 cagagacaga gcaaccaggc atcacaaccg gacaaaggga gaaccttgag gtgccaatca 180  
 ttagatttta gcgacccaaa tgaaaggaaa gcggagcatg agattttgga ggctgtcgg 240  
 gactggggca tgttc 255

<210> 6010  
 <211> 162  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220076g09a1

<400> 6010  
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<210> 6011  
 <211> 499  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220076g10d1

<400> 6011

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atttgtgact ttccgggggg agaaaaaaag aggggtgccca aaaaaaggaa aaaaaaaaaa 180  
aaacaaaggg ttacaaaaaa aaaaaaaaga aaaaaaccaa aaaaaaaaaa aaaaaaaagg 240  
ggggggaaaa aaaagggcga aaaaaaaaaa aaaaaaaagg tgtaaaaaaa aaaaaaaaaa 300  
aaccccaaaa aaaagggggg ggggagcggg aaaggccaaa aaaaaaaaaa aaccctgacc 360  
cgggtaaaga aagaaaaagg gggggggggg aaaaaaaaaa aaaaccccc aaaggggggg 420  
ggggggcaag ggccaaaaac gggggggggg acgaaaaaaa aggagaaccc cggccaaaga 480  
aaaaacaatg tatcgggag 499

<210> 6012

<211> 222

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220076g11a1

<400> 6012

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agaacctcac ccatcatcct ccaaaaactt gaaacacctt ttccagatga tccagaaagg 180  
tacctactcc aagnatgatt atggaaagct aaaaaatctg at 222

<210> 6013

<211> 137

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076g12a1

<400> 6013

tgatgatata taagatggta ccgggacatt tttccccct ggcaaaaaaa gatccctgaa 60  
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gggggagctc acccccc

137

<210> 6014  
<211> 615  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220076h01a1  
  
<400> 6014

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ccgtttgcc aacttaagttt gcatactttt atccaaacat gcactaagtc tatatttgca 120  
tttctgtttg ggactttggg ttactccaaa ctacagtttg agagtaaact cagtttgaca 180  
tggtttggtta tcctcaaaag tatgtttgca cattaaaatt ttgcctggaa actcagttct 240  
gtagaagcaa aacttgggtt gctttttaca actaagtttg caaacgttaa tccaaacatg 300  
cactaacttg tttcttggtt gtccaatatt gtgatgttac gctgcactta gaagaccttt 360  
gctcacaatc ttaataacat ctctgatcag tgtggctaca gaatataggt atttctgaaa 420  
aaataagcat aacttaaatt tccgtgctgg caaaattgat tctcagatcc atttctactt 480  
aaagtaggta gcattgaaaa catcttatat atcgattaat acctttgata gtgtaggggtg 540  
tctacttatt aaattataaa tgtagagaa tttagacgaa gatatttatt cttgtgagac 600  
cattggtttg caaat 615

<210> 6015  
<211> 486  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220076h02a1  
  
<400> 6015

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cttcatcttc actcttcctt caaatattcca acaagaaagt ttgttcaact gtccctttat 120  
tggcgtttagc tatgtacct actggagcaa aagagacca attacgtgag aacaacagcc 180  
agaagggtcca tcctcaacca atggaagagg ccatgaatca taatccagaa gcaatggaaa 240  
ccctaataatc taaagttttt acaaatatct ctctcttgaa gtcagcttat atccagcttc 300



aagctgctca tactccctac gaccctgata aaatccacac tgctgataaa cttgatatta 360  
 gtgagctgaa aaatctgtct gaactcaagc atttctacag ggagaacaac cccgaaccag 420  
 tgtgtgtttc ttcccaagac tcacgtttag cttgcagaat tcaagatcaa cagagccctc 480  
 ttaaaa 486

<210> 6016  
 <211> 540  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220076h02d1

<400> 6016

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 accttcttat tcccctctcc cacaacact agaattcaag tgcaggatat tttcacaata 180  
 caagaggggc cttgaatgta aacaagctta aagggtcat ttactcttac aaccactaaa 240  
 aaggatatta aaaattacag acaacagcat tatcttaca gataaagaaa caacaattca 300  
 aacaaaccac atacaatcaa ctatgcattt tctgaagtct tgagtgtgtt caggaatcat 360  
 tcagccacct tcataccaga gagatagact ttactctgaa tcacacttcc cccaatccaa 420  
 aatccaggca taaccatcaa accaacttta ggtttttcat cattgtcatc cattatcaaa 480  
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<210> 6017  
 <211> 616  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220076h03a1

<400> 6017

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 gcagttacaa ggaaacagcg tccttcgcac ttgcacactt cacgcacttg gtgctcaact 180  
 acgcacgcgc cgggagctct tgggtgcccta cagcgccggg cttcgggggt cggagaggct 240

acatcgtcgt tgcctcgttg ggggacccac ccgaagtctg gtccggcggc gggattgtcg 300  
 ttcgccccgg gaattccaat ttgaagtcg ccggcgcgcg tggcgccccg aactccggcg 360  
 attcaaaaga ggggtgctgg ggtggctcca atttggggaa cagtttccca acgccaacg 420  
 aaatttgcaa ggcgctcgac aaattcgta ttggacaaga gagggccaag aatgtgctat 480  
 ctgtagcggg ttattaacac ttatagacga tatttaatga aaaccttttt gaccaagtgg 540  
 cctgcatgag aatcagtata tagtgggata gttgatgctg ctgatgatga ttgaagtga 600  
 cttgacataa gcacat 616

<210> 6018  
 <211> 549  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220076h03d1  
 <400> 6018

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 aaatcttcgg cgttgttctc aattttcaat tcatcattct tcacacgttc ctccctcatgc 180  
 ttttctttcc cctcatgtgg tatctcaata tccaattcca tcacccttct gtggatacta 240  
 ttatgatcat ttccattccc aaagaagcct gaaaaactgt tcatggatga agcatcatca 300  
 taatectcat cagtctctgt caatgtagaa gaaccatctc catccttttg acatgcatca 360  
 aaagtattca cattcccacc agaaccaaga aaaacatcaa accccgcggc gcgatttggt 420  
 gatatacgac accccatctt cctaggagaa ggagaaggca cgtaagagtt tggctcagaa 480  
 ccataatctg aaacacctga agcctgtgat tgaagatcac acggtgtggt gatgtgatca 540  
 aaacgttca 549

<210> 6019  
 <211> 530  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220076h04a1  
 <400> 6019

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ccacattagt ccatttggtc agctctccaa catgttggtc tctcatgggtg ttcattgtcac 120  
tttcttggtc gctgcattca acattcccag aatcagatca actcttaatc tcaatccagc 180  
catcaatggt atctcactaa agttcccaaa tgggtataacc aacactgctg aattgccacc 240  
tcacttagct ggaaatctca tacacgccct tgacctcact caagatcagg tgaagtcctt 300  
tttggttgaa ctcaaaccac actatgtttt ctttgacttt gcacaacatt ggctcccaaa 360  
attagcttct gaagttggca tcaagtctga tcatttctca gtctactctg ccttttctga 420  
tgcttacatt accgtgcctt ctgattttgc tgatgttgaa ggaagaaaca tcacttttga 480  
agatcttaaa aagccttcac ctgcgtatcc tcaaaactct aatatttccc 530

<210> 6020  
<211> 484  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220076h05a1  
<400> 6020

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gcaaagggtc tccatactgg atggcccctg aggtttctcc ctgctcttgt atcatttgct 180  
tggagtaatt cctgcaaagg aatgaaatca tatggctgtc taatttagtt ttagtctgta 240  
gtacatatcc caaatgttgc tgtaagaaca taaagtataa ccatccataa attagtttac 300  
tgcagtatat gttccattg atttcttgtg atggagtgc gattcagaat cttgaaactt 360  
tagtttttcc acccacttgt gatttatgag agttgtttta gttaaactggc aaatgaattt 420  
ttatacttgt gagcttttta ttgcgactgc gttaactttg aattgctggg tatagggtgt 480  
taac 484

<210> 6021  
<211> 451  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220076h05d1

<400> 6021

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taaaccaatg aaacttactg atgacattct gtaagtagga atttgaattc caagggcctg 120  
gacacttttc ctttttttagt acatataaat acctacctac ttttgaaatc tacaattggg 180  
gatgaatagt aaaatgagcc catgttaagg gcaaaaatac attaaatgtc aaattcaatg 240  
cattattaca tagttaaatc ccgaggaagc ttgaatttag gattctgctc catgaaggct 300  
ggaggtcgtt ggtacacaac tgatgcagcc cttatcaaga tcccagcagt caaaccccat 360  
ataaggaatt ttttatgttc gatttcatag gcaacaaat gtttcagata attctctccc 420  
atgcactgga ttttcttttg actccttttt t 451

<210> 6022

<211> 559

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220076h06a1

<400> 6022

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cagcagagaa gcttctggcg tttgccatgc agaaggttga gtccatgaca gtcgaagcat 180  
tgaaaattca agctgacatg gctgaggaat tagaagcccc atttgatatt tctgcaaaga 240  
aaggagaggg tgggaaggat cttttggctt cagttattcc acttgaggaa tggatcagag 300  
accacagcta tgctaaaact gttgcaggtt ctgatgggga accagaaaaa gtgacactcg 360  
tggtggttgg ccaattgaga gatccattga gacgctatga agcagttgga ggacctgtga 420  
tggtgctgat tcatgcaaca agtgctgaca canaaggga ggaagaagag aaaaggggtca 480  
aggtaacaag catgcatgtg ggggggttca agttgacaag tgccatacag aagaatgcat 540  
gggacagtgg gaagcatat 559

<210> 6023

<211> 540

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076h07a1

<400> 6023

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ggtgggtttgc aagggagtga gttggatccc agaattgtga ttcactatgg cattccatcc 180  
actgcttcag ttctcgcttt tgaccccatc cagcgacttt tggctattgg gactttgtta 240  
aaacacgaaa atgggattca agatttcaga aaaatttaac ctgggggttat tctaattagc 300  
cgtgggatgg aagacttaag gtgattgggg gtgataatat agaaggacta ttggtttctc 360  
ctaagcaatt gccttacaaa tacttgaggt tccttcaaaa ccaagggcat ttagttggtg 420  
tcttaaatga caatgatatc cacgtttgga atcttgagag ccggagcctt gtttgttctt 480  
tacaatggga gttcgatatt actgctttat cggtatcagc ggttaaaatt tcattattgt 540

<210> 6024

<211> 142

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076h08a1

<400> 6024

gagataccaa taccgagcat tattcgccct ttcatagaga agctcctgct tttgtagagc 60  
atgaaaccgg acagcagata cttgctacag gaatcaaagc agtagacctg cttgcaccat 120  
atcacagagg aggaaagatt gg 142

<210> 6025

<211> 257

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076h08d1

<400> 6025

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atttcccata tgcgtctaatt ttttgacca atagctagca atcataattc ccacgtgata 120

caaaaataat gggattggta tatggtgcca attaattact tttagctcca ttagacacta 180  
 tgattggatt aatagcctta ttcagatacg tacaaaacct gtcgaatttg caatggcttg 240  
 cgctcattct tacggat 257

<210> 6026  
 <211> 162  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220076h09a1  
 <400> 6026

ctctcagtag aaaaagtaga aaggagaaga tattcttgag caattcgaag cttctagttc 60  
 ttgtgagccg gaggcttcta taactcaaga aacagaaaga gaaaatgagg atgctgggga 120  
 atgtaaggga agtgaaaatg atgagataat caaagaactg aa 162

<210> 6027  
 <211> 310  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220076h10a1  
 <400> 6027

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 agggaccacc acgaccacc cgcgccccca ttctacgacc ccggcgagcc cggacagagg 120  
 ncctccatcc gagcccttat agccgggatc cggacgccgt acgatcagta cacgaatcca 180  
 tactcccggc cttcggtttg taccacctaa cagacaccgg cgccgagccc tgcacagttg 240  
 ctggcgttct cggactcggg gggggccggag gaggcccgaa agcggtcgcc gcctattgca 300  
 ccgaccgcat 310

<210> 6028  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220076h11a1  
 <400> 6028

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gacgaagaaa ccaacgcctc caccgccgag gcagaaacct cctccgttaa cctggaagcg 180  
ttaaccatcg acgacaaaga aaagaactct tcaaaactct tggacgaccc cgacgattct 240  
aatattcaag cggttacttc tggcgatacg ccgtacacgt cggcagcgag gttcaggagc 300  
ctaagcctct cgccagagct tttgaagggg ctctatgtgg agatgaagtt agagaagccg 360  
agcaagatcc aggctatcag tgagccgatg atccttagcc cgccaatcg ggacctgatt 420  
gcgcaggcac acaatggctc tggcaagacg acttgc 456

<210> 6029  
<211> 371  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220076h12a1  
<400> 6029

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atccataaca ggtaagaaga gttgcttcaa cgagtcacga gtggagtttt atcttgagca 120  
agaacctcac ccatcctcct ccaaaaacta gaaacacctt ttcctgatga tccgcagagg 180  
tacctactcc atgtatgatt atggaaagct ataaaatctg atagagtacg gcatgttcaa 240  
tccaccaaag tgcgacctta ggcgcatacc caaatcattg cctctgagga tggcctatgg 300  
tggaatgat gcttaggcag atataactga tttccagcac aactcaaag aattgccatc 360  
cacaccggaa g 371

<210> 6030  
<211> 400  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220076h12d1  
<400> 6030

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agaagagaaa atttaaaaaa aaattaaacg atcagagttt gatcgatgaa cacaagagaa 120

attcagataa attcttcttc atcttctttt cagcaacaat ctctctctct cgctctctct 180  
ctcaatctaa aacctcacac tctctctctc tctctctcaa acctgttata tgctactttt 240  
ttttttcttc tctctatata taaatctgaa aagaaaaaaa gcgaaacccg tgacctgaac 300  
ccgatcgcg c gaaagggtcaa ccgtcaacga cgtcgttttg agattccggt ccgttcgggt 360  
ttttttcctt cttttttggt ttttttcaga ctttgacgat 400

<210> 6031  
<211> 412  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077a01a1

<400> 6031

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atggctgtcc ccgtgttgat atatcctagc tctgcatact actcatatat agagtgtgct 180  
atgatgctct agaagcacca caacagaccc ctattctgct ttttgattaa cgggagatga 240  
tgatgatgat gaatacggaa gacggttaat actgcgtcat tctaacta gctctaattg 300  
acgcactact gtccataacc gtgcgtggct gtctgctctg cgactgctca acagtgtgcg 360  
tacagcaacc ccagtttccg tacatgcacc acatgttcgg atacctgagt ga 412

<210> 6032  
<211> 393  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077a01d1

<400> 6032

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agttggggat ttgataaaca agccttttaa tgaaaatgcc agataaaaag agacctgaga 120  
ttttgaacta gaatagctca tcctcctggg ggggtctgaat aacaacattt ggggggggat 180  
aagcaacaca ggggagaaca aatccgttac cgatttgggt atcatcaagg gaactaccat 240  
tagattgggc gactttgcc a gaaacaactt tgccggcaca ggaagagcaa gccccagcct 300



tgcatgaata gggaagggca atgccaaatt cctcagcctt ttcaagaatg aaaaccttat 360  
 ttgggcattc aaattcttgg gctcctttgg ggg 393

<210> 6033  
 <211> 571  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077a02a1

<400> 6033

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 gaccctcctg ttgtcccaca tcgtcccca aagaatcacc aaacccgaat tcaaaaccgg 120  
 gtgcacccga cacagaactt tagcgtctca ccaccacctc actctccaag ccttgaattt 180  
 gactcactgg aatgttgagt cttcccgggt tattaaccgg aattcggtta cccgacccga 240  
 cggagtgatc cacggcatcg acactctcct catccctcgc tcagtccaag acgaattcaa 300  
 ccgtcgccgg aatctgatct ccacgcgcgc ggtaaaaccc gtaccatccc cggagggtga 360  
 cccgcgaacc caccgggtta agaaaccggc gccggcatcg ccggcggggg ccccgccggc 420  
 gctcccgatc tacgacgcga tggcgccggg gccatcgctt gcaccggcgc cagcgccggg 480  
 tccgggtggg tctcacaagc acttcaatgg ggaaaagcaa gtaaaagatt tcatcgagac 540  
 gttactccac tacggtgggt acaacgagat g 571

<210> 6034  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077a02d1

<400> 6034

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 atattccata aaatttataa agcaaaccct aaagccccct ctgttgaaat taatcaagaa 180  
 aaaataacat ggatatatat attcatccat tttcctataa taaacttttt atgagttctc 240  
 ataaaacacc attaaacttg ttgaacaaca caaaagggtt ttgtttctga agatctcatg 300

actatcttgc ctttgatctt gaaagctatg ttcgttacaa acaaaccaaa ccctttgctt 360  
atgacccctgt gaaa 374

<210> 6035  
<211> 493  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077a03a1  
  
<400> 6035

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ggggatcatg gggttcaaat cccttcttaa catgaagaag aagaaacttc tgaagacgat 120  
gcctctttcg ttctcattgc cccacgcgcc tccggaatgg ctgcattcat cacgcgccta 180  
cgggatggag gactctgagt ctgccttcta aaagatcgac tcatacggcc acagactgat 240  
actcgggtgcc gaactcgtct gcatgatgca tagcctgggc cagccccga ccgatgaaga 300  
gctagagacc ctgcttcccg aggtcgtctg cgtctgtgac gcgcccattg acttggagga 360  
gttcaccgag atgaatacca gggacgtgga ccccgacgag gatttggaga atcgtgagga 420  
cgctttgtgc atcgttgatc ttgacggcaa cggttgcatc accgcggagg agcttaaaat 480  
ggtgatggga agc 493

<210> 6036  
<211> 361  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077a03d1  
  
<400> 6036

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aaaggaaaga actcgagcaa ccaaaaatcg acaacacgaa caaaaccgag agtaagagaa 120  
ataaaaaaca aatagaaaga accagaaaca aaacaaaac aacaaacaac aaaaacataa 180  
accagcacta cagaaaactg aagaacaggg accagaaata cagaaaacac aaagggaaac 240  
aagagaagga aaagccaaac atagcagcag ggaacacgcc accgaagaca tacactgggg 300  
aggcaggaca ccaagacgac acccgcgaaac gaaaattcga aagagggaat ggaaaacacc 360

<210> 6037  
<211> 624  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220077a04a1  
  
<400> 6037

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ccgaagtagc acagctctgc aaaaaattca gctaggaatt caccttctga aaaagtttct 120  
ccaactcgag tcccccatga aaaatcagct gaccagcccc ttactgatca agggaataat 180  
cagcgattga ttctccggtt gccaaacact ggtcacagtc cttcaagggg agctagcggg 240  
ggctcttatg aagaaccagg tatcacgtgc agcaaagctt cttctcctgc tgacaggaat 300  
gagaatcagg acagaagaat gaaaactaga cctgagtgtt tgctgacca tgtgtcaaat 360  
atgatgaatg aggcattgta tgctagtga gctttgcttg gtgttgacga aggtaagggc 420  
cctcaaacgg ttgatgagcg atgcagggct aatgaagatg gtgataaggt agcagaatca 480  
tcaaaaccgg ctaagttgtc atctggattt gtttccagat catggcagac ttatgantta 540  
agcccatga atgcattaat tgaaagctgt gtgaaaattc ctgaagcaag tgcattccgtg 600  
taccatggag atgatgggat gaac 624

<210> 6038  
<211> 364  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077a04d1  
  
<400> 6038

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acaaaattcc agagtcaaga ctacagcaat aactatatat gtaacaaaag ttgaaaaaaa 120  
aatgatttaa agaaagacaa actggcctta agcctagcca gttcagacat tcaatccttt 180  
ccttccaaat gctcgagaat ggattgggct cggtgctgtt gcagagcagt cacagtcaaa 240

cacttgatgc ccatttctct gattctaggc gggattatca caccaactgt ttcagttaga 300  
 tatctacaca ggaaaaactt tatctgcaag cgacaataag ggagcagatt cattcaaac 360  
 aact 364

<210> 6039  
 <211> 596  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077a05a1  
 <400> 6039

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 agaagagttg gcgtcgaatc tttccctcta caaagatcaa ctgaaccagg ttagagaact 120  
 cttaaacgat gaccctgcaa attctgaata tgttgacatg gagagggaac tttccgaggt 180  
 cattgccttg accgaggaac tccttgcaac tgcaaagcag aatgaaatct ctgctcctcc 240  
 taataatgct gctgcatctc caaccttgtc catacataac gagaatcaat tgctagatag 300  
 tagttctgat catcaagaga aacttgctgt tggcaccaaa gttcaggcag tttggagtga 360  
 agatggggag tggtatgatg cgacaattga ggcttatact ccaaattgggtt attatgtaag 420  
 ctatgacaat tggggtaata aagaagaggt tgatcctgcc aatgtaaggt caattcaaga 480  
 aggttctgtt gatgctttat tagaagctga gcgagttgct gaagcaacaa aacaggccat 540  
 caaacgaaaa attgcacaag ctgcatctat cgatttacag tctcggagtc taccta 596

<210> 6040  
 <211> 489  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220077a05d1  
 <400> 6040

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 agtctcgaca catttcagta gataacattg tttggtttgc catcagtga cctctacaga 120  
 gaatggttgt ttgagcatgt tacatacaat tgaaagggca tctagccgag tcggtgcata 180  
 acctaatcat cattttcaac agtaccatct ttgaggtgaa aatgtttttc tctcttctgg 240

aactctgtca aacctttccc acttcccgtc acaccaacct ttccctgagg atcatcagga 300  
gatttaaaaa tactctcccg ttttcttcca gagaagaaac caatcttctt tgcctttctt 360  
ttggttgact gaaactgctg ccaagcattt tgccgctttt nntgtgtgac ttcaagttgc 420  
tccatccgca tctntgactt aaagcatgta tttcttggcg tttgaagctt tacatctcag 480  
gatcatcag 489

<210> 6041  
<211> 352  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220077a06a1

<400> 6041  
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ttggtattgg gttgctgacc tttgctagtg ttatagattt tttgggtcct gttgtgtact 120  
aataaatgca ggatagaaaa agtctatagg tgcctagaag aaaagacaat atatggtgtg 180  
gagcaattac atttgatcac aagggaaaag gtgcaacggt ttgcaagata gcatagaaga 240  
ttttgaagaa tcttaattgc aacatagtag cgcagttgca atgggggctc ctttatcagc 300  
atggccttgg gataactttg gaacatacaa gtatctatta tatggaccgt tt 352

<210> 6042  
<211> 362  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220077a06d1

<400> 6042  
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aaagaaaggt aagccatcaa tgaaccctca ccagagaatg gatgtaagag caagaaacat 120  
acaaaagaaa gggcatcaag gcgagaaagt gcaaaaccga aacaagagat gcaacagaac 180  
caaatttgag gcgaaaatga accccgaacc tctggaactc tgaaaaacct aagccacgga 240  
ccgacaaagc gaccttgcca tgaggatcat caggagatcg aaaaatactc tcccgtacac 300  
ctccagagaa gaaaccaata gtctaagcca atcctttgga tgacagaaac tgctgacaag 360

ca

362

<210> 6043  
<211> 511  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220077a07a1  
  
<400> 6043

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tgcaagcctt acatagccat gatttctctg caattcgggt ttgcgggtat gaacataatc 180  
accaaggttt ccctcaaccg tgggatgagc cactatgtgc ttgtggttta tagacacgcc 240  
tttgctactg cagctattgc tccttttgct attgttctag agaggaaagt gaggcccaag 300  
attacatttc tcatgttcat gcaaatttc gtgttgggtc tccttgggcc tgtgattgat 360  
cagaacttat attatgcggg gttgaaattt acttccccta cctactcatg tgcgataagc 420  
aacatgctcc ctgctatgac atttgtgatg gctgctattt tcaggatgga gaaagtnaac 480  
gtgagataca gtagatgcca agcaaagggtg a 511

<210> 6044  
<211> 518  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077a07d1  
  
<400> 6044

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taagggtccac acataagggt ctaatcaaaa tacaaaaaag aaagaaaaaa aataagcctt 120  
agttaatttt ccgaagaaag atgggtgagta cacaaaacaa aacccttttc aatttctctg 180  
ctctcaatta aagaccctt ttttcattgc agcctctatt attattcatc cctttccttt 240  
ctaattctaa ccactttaaa cttttggaac tccaatgggt acccttaact ctcttgaggc 300  
ttcacccttt tgcattctca tgcgttggtt tgtttcagca tcttctacca cagtctccaa 360

cctcatccca ttttctgaac aacacttcaa tacctcaatg gttatctctg cctctttctc 420  
 tttggtctcc ttgtgcttgc cccacagaac cgagtaaagt cccattacta tgagaatagc 480  
 tccaatgacc ccttcaagaa tatttttttct gcaaggat 518

<210> 6045  
 <211> 582  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220077a08a1  
 <400> 6045

cgcacattct cctcaaagac aacaatggca ccaacagcca agactctgac ttacctggcc 60  
 caggagaaaa ccctagaatc gagcttcgtt cgggacgagg aggagcgtcc caagggttgc 120  
 tacaacgaat tcagcgacga gatcccagtg atttctcttg ccggaatcga cgagggtgat 180  
 ggacgcagaa gagagatttg tgagaagatc gtggaggctt gcgagaattg gggatatattc 240  
 cagggttggtg atcacggtgt ggatcaacaa ctctgtggccg agatgacccg tctcgccaaa 300  
 gagttctttg ctttgccacc ggacgagaag ctctgttttg atatgtccgg cgccaaaaag 360  
 ggtggattca ttgtctccag ccattctcaa ggggaatcgg cgcaggactg gagagaaata 420  
 gtgacatact tttctgaccc aaaaagagag agggactatt caaggcggcc agacacgcca 480  
 gaagggtgga gatccgtgac tgacgaatac agcgaccaag taatgggggtc tagcttgcat 540  
 gctcatggag gtgttgtccg aagcaatggc gtagagaaag ag 582

<210> 6046  
 <211> 515  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220077a08d1  
 <400> 6046

gcagccaata ataaagacag tgccacttat tttcatttat aatagaggca aatataaggt 60  
 atacatagat gagccagcta gctaataaga cataggcaac tgaacacaac acatgatatc 120  
 cccacaaagg ataaatcata agacgtacaa aagcaciaag gtaaggacta ttattaattc 180  
 atggccctta aaaaatacta aaaacaccaa gggggcatgc aatgatata tatgtaatta 240

ttattaatta agcaagaatc tccttcaaag gcttggcctc aagttttgcc ttctgatcaa 300  
gttcttgcaa atgcttttca ttctcaaggt cctgcaaata cttttcctta gccagcttct 360  
tcctccttgc aatctcaatg tccttgctca tcttcctcct gtacatttca gcaaaagtga 420  
ttgggttcctc catcacaggc ttctctcctt ctcttatctt cagagggtaa acagttgcat 480  
ttgggtgctgg gttntgaaaa gtggctatgg acaaa 515

<210> 6047  
<211> 532  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077a09a1

<400> 6047

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gagggttctc tcaccgtgac ataaagccgg acaattttct aatgggtcta ggacgaaagg 120  
caaatcaagt gtatgccatt gactatggcc ttgcaaaaaa atatagggat cttcagactc 180  
ataggcacat accatacagg gaaaacaaga acctacagg cacagcacgc tacgcaagtg 240  
tcaacactca tcttggaatt gaacaaagca gaagggatga tctggaatct cttgggttatg 300  
tgctcatgta tttcttaaaa ggaagtcttc cctggcaagg actgaaagct ggcaccaaaa 360  
aacaaaaata tgataaaatc agtgagacaa aggtgtcaac tcccatagag gtgctctgca 420  
aatcatattc gtctgagttt gcatcatact tgcgctattg ccgatcactg cagtgtgagg 480  
acaagccaga ttattcgtat ttaacgagac ttttccgaga cctatttatt cg 532

<210> 6048  
<211> 538  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077a09d1

<400> 6048

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ggacctcatt gttaagaaac aagaacatgg tgttgatca tggagcgtac tacaacttag 120  
gtctcatcta gtacagtaat taaatattaa aagaatttca gttgaattct cttcggcacg 180



tcttaagaac acgctacagt ggctgagaaa cctggtgaaa caacaattct gggggcagaa 240  
 aaaagtccac ctttgtccaa aactgatatc aggagatcat gccattatga cctcaactct 300  
 tgggttttctt tccataatgc ttgagactat tcttgaataa aagggtgatct tgcattctcag 360  
 gagtgtcata attcagaata taacaacaaa aagacacaac ctttacttaa ttacttcctg 420  
 atattgagga gctcaaagtt ccgcagagga tcatcacggc ctcttataga gccaccatgc 480  
 gtataagttg cttggttggt gtcatacact ggttgaactc tgtgagcacc agatggac 538

<210> 6049  
 <211> 542  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077a10a1  
 <400> 6049

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 tactttttct tcttcttctt cttcattttc ttcgctcttc gatcttcgtc cggggactgc 120  
 tccgaatacc accaccacca ctgcgcgatg gccacgatcg gaggcttaca cgactcccaa 180  
 ggctctcaaa acagcgtcga aaccgaagcc ctgcgctgat tcgccgtaga cgaacacaac 240  
 aagaagcaga attcgcttct ggagtttgct aggggtggtta gggcacagga acaggttggt 300  
 gctggtaccc tgcattacct tactcttgag gctattgaag ctggtgagaa gaagctctat 360  
 gaagcccagg tgtgggtgaa accatggcct gatctttaaag aacttcaga gttcaagcct 420  
 gctggtgatg caccatcggt tacctctgct gatcttggtg tcaaaaagga tggtcaccaa 480  
 ccaggatggc aatctgtgcc aacacatgac cctcaagttc aagatgcagc atatcatgac 540  
 at 542

<210> 6050  
 <211> 573  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220077a10d1  
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 gttactaatg taacatcacc ggtagcttcc cagttaataa agggatacac acattgtaaa 120  
 actacttatt tgccaaggca cagagaaaagg ggtaagcact agacatagat aagaacaata 180  
 ttgctagggt gaccaaactt cagatcagaa ttaggaatga tcttggtcca tctgatttag 240  
 atggaacccc ccttggttat tcttggtgtac ctctacctta aacttctctt ccttctgtcc 300  
 cctcttgact ttgagaagca gattaaactt agcaaaatca tcaatgacct cagcctttgc 360  
 atcagcaacc tcatgaagct cataggggtac tagtgaatta gacctttgct ggatgggtctt 420  
 gatcgcatga tttgctgcat cctgaacttg agggatcatgt gttggcacag attgccatcc 480  
 tggttggtga ccctcctttn tgacaccaag atcagcagag gtaaaccgatg gtgcatcacc 540  
 agcaggcttg aactcttgga gttcttgaaa ttc 573

<210> 6051  
 <211> 501  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077a11a1  
 <400> 6051

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 gcacccccac ctaactcggc agaagggaag ggtttgacat cattattaga ggtctcatca 120  
 actcatgtta agcataacca gccaaaacat acaaacaagg caccagtttc ggtcctccat 180  
 tcacctgttg caaagcttcc cgcatacaat caaggaaaga gcggattcct ctatccaaac 240  
 aacttgctta atgtgaaagc taacacaaag ggctgggtta gtactgaaaa gttgaaacag 300  
 agaaacaagg tcaacgattc actcaatgag cataatcaag gtcctagaac agctaagca 360  
 aaaggtgcat taatgtctgg aggtaattct gtgagaggct cagccccagg tgggagtgga 420  
 aatgctacca acaaaatcag gacagatcag tacaaccttc ctgattctcc acccaatatg 480  
 atcatgcact tttctttgtc a 501

<210> 6052  
 <211> 501  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077a11d1

<400> 6052

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cgtgcttttc atagcaccct gtaacagcta tctcaccggg tccattccac ttccaaagaa 120  
cttcttttctt ttgtagtttt gtacaattag gaatgcagtc accatttgcc cggataaaaa 180  
ttattattat tttttctttt tctttttctt ttctcccttt ctaaagcatc agcagcagca 240  
agaatttttg gtttagaact taaaatttga attcattagc tttttttttt cttactttgt 300  
ggtcacagtg gcacatcgcc acaccatcgt gatcgcatg ctggcatggc ggggtccccag 360  
gaatagcatc agccccacat gctattcagt cattcactct ctcaaccacc ttaggatcct 420  
ccatgttctt acagatgata ggtctactga cccaagtgtg atgggtaatt cctctatttg 480  
ctgtacactg gtatggggca t 501

<210> 6053

<211> 398

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077a12a1

<400> 6053

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aaactcgag tcgcagacat gtcttccttc gatgccttcg ccgacgactt gaacgtcaac 120  
tcttcttcca ctgcagcagca cgacgatgac gaggacaact tctctggcta cggcggctac 180  
tctctcttca ccggaggatt ctccgcccac ggagatgtcg ccgtcgatca ctccgcccgc 240  
gcgtcgtcgg agatctacgg cttcactgat tcgaatcccg cttactctca gtctcccttc 300  
gaatcggcca ccgtagagaa cgaaaacgga aacggatacc gcgacggcga ccgtgttttt 360  
gtctccgacg gttcgggtgct ttctccgacg acggagat 398

<210> 6054

<211> 526

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077a12d1

<400> 6054

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ttccaacata tactctgtct aaaaggatgt actatttaaa cccatgatca ttgaatctcc 120  
acgtcataat tgtaataat ggatttaatt catacaaaac cttaaagtta ataataataa 180  
aatgcaaccg ataagcatta gaaactaata gcagggcaaa aagattcatt aaagactgca 240  
gggtggagaa aggggtggca gaagaaagat tgagggggaa ccaaagtatc atagacaaaa 300  
tcatgcagca ggctgctcct cagtggcagg agcttctttc tggggttctt ctgtgaagcc 360  
attagagggtg gcatcctttg gctgtgaatc aagtgcacct tctgctgcag atccagttgc 420  
ttttgatgct gctttctctt ttgcatcctt attatctttg gcgtctttag caagagccgg 480  
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<210> 6055

<211> 481

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077b01a1

<400> 6055

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aggcctcctg gtgaccacaca tcgcccacaa aagaatcacc aaaccgaat tcaataccgg 120  
gtcgacccga cacagaacta tagcgtctga ccaccacctc actctccaag ccctgaattc 180  
gactcactgc aatgtagagt cttccagggg tattaaccct aattcgaaa cccgacacga 240  
cggagtgatc cacggcatct acactctgct catccctcgc tcagaccaag acgaattcga 300  
ccgtcgtcgg aatctgatct ccatcgccgg ggaaaaaccc gaaccatccc cggaggtcga 360  
ccgcgaaacc caccgtataa agaaaccggc tcctgtatcg gcggcggggg ccccgccggc 420  
tctcccgatc tacgacgcga tggcgctgt gccatcagtt gcaccggcgc cagcgcttgg 480  
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<210> 6056

<211> 463

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220077b01d1

<400> 6056

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ttatacaagt gccatcattt tacagaaaat gaaaaataaa tacaaatggg aattccttga 120  
aaaagaaaaa aaaaagtatt acaattatat cctgggtaat tgtgctaagg ggaataaaaa 180  
aaaatccaaa acttgacttt gctttgttgc tctgatagca cattgcttgc acccgcgccc 240  
ctttcctgag tatttacctg ttgggcgggg cacagctgag accaggtatc agcagcctgc 300  
tgataggatc gacagaacat gagcatgagc tcctgattta caatttttta agcaagaaca 360  
tgagctcttg ataggatcaa atgagtacaa gcaacgtggc ccgacaactt tgtgccagat 420  
gactgacaac tggtcaccat ggcaattcct ggtggatgct tct 463

<210> 6057

<211> 280

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220077b02d1

<400> 6057

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tctgcccccc accaaaatcg ttgagccatt caccatatga tatcaagcat agcctctcct 120  
cggttatata cactcatctc tgtacacact cgtcaacgcc aaaagggctt taaaaatgta 180  
aatctattac acctattgga aaaaacagat gtattgagat attataagct atgctctagc 240  
ggactgtaca tcattcatcc ctttaccac caaaagaaa 280

<210> 6058

<211> 499

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220077b03a1

<400> 6058

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gagagatcat gccgctctgt gatgagcaaa tcacaccaac aatgcacata tcgtgtgtac 120

atggaagcaa gaccattgga ggaaggtctc gccgaggcca ttgtcgatgg caagattgga 180  
ccaagggatg acccaaagag tcgctccaat atcttcggag aagagtttgg ctggtacaag 240  
gatctcgcca cgaaaatctt gttctttggc cctgagaccc ttggacccaa catgttgagg 300  
gatatgttgt cagaagtcca gtccttgaat gaaatcaatg attctgaggt tgctctagtt 360  
cagtgggcat caaaagaatg agctctggcc gaatataaca tgtgagccat ttgctttgaa 420  
gcatgtgatg tagttatgca cgctgatgct atccacatag gaggaggtcg aatcatccct 480  
actgccagga gagtattct 499

<210> 6059  
<211> 450  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220077b03d1  
<400> 6059

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caaactccca ttgagaaact ttactacatc taattaaaga tgaaattgat taaaacataa 120  
cttaatttca actcacagcc tacaaaatta caaattaaac catgaaattc aaaacagaaa 180  
atcctatgac ataatgaaaa tgcaaatcca caaaatctgg tgctgaacaa tgaaagcaaa 240  
gcaagctgct cctttttagt tttgtgcact atccatgact caaagcatgc aatcagttct 300  
tgcaggcagc ctctgaaga aattcagagg caccgaagga angcttgtgg cggaacctgg 360  
ggtgtctcaa cacatagatt ccagtgaaaa gtgcgacaat ttggaaagga gtgacataga 420  
gtacaatggc agcaaccaga cagaaaatca 450

<210> 6060  
<211> 624  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220077b05a1  
<400> 6060

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aaggattaga tacttcaatt aggaaacatt gtttatgtcc tcagggtggg aagaaaaatc 120

agattcaa at cagatgaaga gtgaatattt tagaattaaa actagcatta ttttcctgta 180  
 ctgaaataat acgataaagt catgattaca tctagctact tctctgtatc catattaatg 240  
 tcattttttt gaaattttca tcatttatta cattctatat cattttctct catttttaaag 300  
 ataaatgggt catgtcagta agtctctatg actttatgaa tgccacatga tagataaaat 360  
 gattgttttt gaaagatggg aaatttgagc atattattta gaattttatt ttatttggtta 420  
 taatctcatt aaatgaagt gtggcacatc attcgatgac aatgtaaaaa accattttat 480  
 attgacaatg cgtcaaaatt aatccattat aaatcctgtt gactggcttt cttactgggt 540  
 ttctattttt ttagagctat aatgggtttg caattatcat actgctctac tgaagagcct 600  
 tatattatat ttgcatcatt cgca 624

<210> 6061  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077b05d1  
 <400> 6061

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 atcagatacc cagatttttc ccgggttggg ccgggttttc caagggttct gggaaaaatt 120  
 atgggagttt aaaagggttt taaagggcag ggggttaaagg gttaattcca aatccgggga 180  
 ataaccattg gcccaaaaat tagtaatacc ccccatatcg ggcaacacaa caataaaaaa 240  
 tttgaaagca caggttgggt atccaactta ttttggaat caggtttaaa gcccgcccat 300  
 ttaaaatttt tgaaaggcgc gttattttcc caaaaatcca cgtcacctaa aaaaataaaa 360  
 actttttcta taccctttac tttaaccaca ttcggcccat aaggaatttt 410

<210> 6062  
 <211> 516  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077b06a1  
 <400> 6062

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ccctttttgc tcctttcttct tctttcttctt cttcttcttct ttcattactc ttccttgctc 120  
 cactcctcat attatctttt tctgaagaaa cacataatca tggagggggtc tcacatgggg 180  
 ttgttgctct tcttttggtc ttccatgctt tttgctgcct tcgctgctgc ctcctccaga 240  
 aacttgccca taataccctt tgatgaaggc tacgcgcctt tgtttgggga cagcaacttg 300  
 gtcacccata gggatggcaa atcgggttcat ctttcactcg atgagagAAC aggttcagga 360  
 tttgtgctgc atgatcttta ccttcacgga tatttcagcg cttctattaa gttgccttct 420  
 gactacactg caggagtgtt ggatgccttc tatatgtcac atggtgacat gttccagaat 480  
 aaccatgatg aaatcgactt tgagtttttg gggaac 516

<210> 6063  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077b06d1  
 <400> 6063

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 actccgaagg agggactttg tatctgactt tgtcatagca gtaggagtat gtcattgtgct 120  
 tcttctgaa attctccatt ttgattcttt gtgctgggtg aacaccagaa gaaggaattg 180  
 ttgtagttgc ctcagaactt tgaggagcat tgtcacactt ggccacgtgc tgctcaattg 240  
 gatccactgc acaaccgtgc agaacaaggt cagagaattc agcaacatag ggtgcatact 300  
 tgtagttaac cctgtatttg ccccatgg tagcccaatc agatgcatcc catattgttg 360  
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<210> 6064  
 <211> 513  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220077b07a1  
 <400> 6064

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ttccttacct ttgaccagag acagagcagc actcacattc acaacgaagg tttcctattc 120  
atcagacatg gtgaaggcaa tcagagttca cgaactcggg gccctcaag ctctgaagtg 180  
ggaggatgtg gaaattggag atccaaaaga agccgagggtc cgtgtgagga acaaagccat 240  
tggggttaat ttcattgatg tctactttcg caaaggagtt acaaagccc cttcttttcc 300  
cttcactcca ggtatggaag ctgctggggg tgtgacagct gtgggtgctg gactcactgg 360  
taggcaggtt ggagatcttg tagcttatgc aggtcaacca atgggttcat atgctgaaga 420  
gcagatactt cctgcanata aagtagtccc tgttccttcg tcaattgacc cagctgttgc 480  
agcatgcatc attctcaagg gcatgacaac tca 513

<210> 6065  
<211> 434  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220077b07d1  
<400> 6065

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tgggaaacaa catacatttg ccctttcaat tcttaataaa gagttctttt caagaggaag 120  
caaaccggga cttgggggtt aacacatacc caactgagag gcttaggggt tcaacacaac 180  
cgaacctgac gtatttcaat tctccaagtc ttcgggggct tttgcacct taaacaatgg 240  
gaaagtttga ttaacacgga cctttaaccc accgtaagca acgtagcaa acaccttttc 300  
agcagccttc aacagcttat ccgagggggc aacatttttg attagactag gcctagtcaa 360  
gaaaagggat tttgcaacca gggaagatta tggaaccgga ttaggtgaac caaatgactg 420  
cccaaaactt acca 434

<210> 6066  
<211> 530  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220077b08a1  
<400> 6066

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aaccgatcaa gatgttgac aaagagcatt tgtacagagt gctttttgca gatgaaagtt 120  
 ccaaattcaa cccggcctac acaatgtccc ttctgcaaaa cggcaaatta tgctgtggag 180  
 tatcgtgggtg tgaaatctaa agaagagaag ggattggaac agattgaaga gcaacgtgtt 240  
 atagaggcaa aaattaggat gcggcagcag gaacttcagg atgaagagga aagaatgcac 300  
 aaaagactgg aaatgagctc ctggaatgtg aatgtggcag ttgcagatgt tgaatacagt 360  
 tcaaatgcag tgtcttcac ttcagtttct gttgctgaaa atgatgaaat tggttcttct 420  
 caagactcat gtgccacatc agtgggttaga gcaaatgcaa ccactatgac caatagagat 480  
 gatgaatttg acgttgacct tgaggacatc atggtcattgg aagcatttgg 530

<210> 6067  
 <211> 518  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220077b08d1  
 <400> 6067

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 caaagacaaa ctatttacag aaaaccaatg agggggcagg agaggacatc gagcacaagt 120  
 aaaaaaatg gcattaagca gcaacctttc accaactaga atcattagtt ttcttttgat 180  
 acttatatat ataaatttgt gagaagagat cactacctga tccttgaaca aattgcatac 240  
 gagtgaactt cctcaaatt ctcaaccttg gacttggctt gtcaaatagc caaggcaagc 300  
 atcaccaatt taagaaagat taaaccagca cctcaaccaa aaactactgc caagaagcac 360  
 tctgtccact tgacatggct cgagcttcag ccaagagac agccatggcg agcatcatct 420  
 gctcctcaaa actctcggga acaatgggtt ctgtggcact ttgaaggctt ccatcattgt 480  
 catcagaccg tggcanagat gatagttcac cacgatct 518

<210> 6068  
 <211> 534  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077b09a1  
 <400> 6068

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ctctcctcac atttcaacgc gccgccactc tgcgatccgc gatgaattct cgtgaacagc 120  
ctcagccaca acagccaccg caaccacaac cgccaaacat gacgggtggga cccaccatgt 180  
acccttcgat gttgtccccc gtcaccgcca gattcccatt cagcagcagc agcaacaaca 240  
atcctcctcc ttcggagcct ctcaacaacg acaccaacga caatgataac agcgcggttcg 300  
aggcggtgaa gccttgccgc ctggccgcct cggaatcgtc gaagaagaag cggggccgcc 360  
caagaaaata ctgccccgat ggcaacattg cgttgggcct cggcccaacc catgctcccg 420  
cttctccgc cgatccttcc gccaaaaaac atcgcggtcg cccccctggg tccggcaaga 480  
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<210> 6069  
<211> 523  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220077b09d1  
<400> 6069

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cttacgacaa acggcttgta acaaataattt tatatccac gtcaaggaat atgctgctgc 120  
tcggttaagg gactcatatc taatgaacgc aaccaaacgc tataaccgct atcactgttt 180  
caattatagt ttgaaaatcc taatccacgg gaaaataaag gtatgtaaata aaatttagac 240  
cttaagatag attctcctaa aatcagtcct aaccaaacc aatgatgcat gttatatttt 300  
ggaatttgac ctctagctac tgctttgaag aatcatcatg ccaataccct gcttctgcag 360  
agttggactt aaaaacgcat catcactgct gagtatggcc agcccataat tgatgttggg 420  
acatcggcat ggtatgaatc ggctggctag cattattatc gtatagtcca gggcctcctg 480  
gccctgact aaaatgacta ttctcattat cttcagatga ctc 523

<210> 6070  
<211> 566  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220077b10a1

<400> 6070

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ccgacacgcg ctccagccgg agattctctc tcacgcgcct catggcaatc tttctcttct 180  
ctctcttctt cttctccctc atcttctctc tcccacatcc tcccatccaa tcagcttcaa 240  
cagcaaagac tctgcaccaa ttcaagcaaa ctcaacaagg taacgttgct gattctgttg 300  
agttgcacaa agataaacta cttgggtggc ttatagcaga tggatttgat gaacaatcat 360  
gtctcagcag gtaccattcg gtcacatata gcaaggact atcgggaaat ccttcatcat 420  
acctcatttc tagattgaga aaatatgaag ctctccacaa agaatgtgga ccttatactn 480  
gaacctataa tnaaacgggtg aaagatctga ggtctgttca tgntagtgag tccccagcat 540  
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<210> 6071

<211> 546

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220077b10d1

<400> 6071

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gccaaactatt actgtctaca agcttaagac cccagctcat atcctcacag tgccttacat 180  
gtggaacaag tgcaccagta tcagttcttc tcttagcctt acaatcatag aaggaggagg 240  
catggaagca tggctccatc gacatggcac gttgacaagg aggatcagga gctgttccat 300  
tctcgggctt gtacagtatc cacggtttca acccttcaag cccctgcgcc acgtagccga 360  
aagtagacca cgagctcgtg accaacatat ccatcaagct caagaggtaa atttctgccc 420  
aagctttttg gttgtgcac tcttctctctg tttgttgata cccttcatgg cttggctggt 480  
aaatgccaac aacttctctt gtcacagttg ggtgttccca aaacatgtct ctcacctttt 540  
caaaat 546

<210> 6072  
 <211> 534  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220077b11a1  
  
 <400> 6072

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 gtttgaaatt tgaaggcagg gaagatggat tatttcaatg caccatgaag aaaccatctc 120  
 tttgggtccag ggccggttaa cattccggac cagatcatcc ggtccatgaa cagaaacaat 180  
 gaggactacc gttctccagc aattccagct atgacaaaaa ctttgcttga ggatgtcaag 240  
 aagattttca agaccactac tggaacccca tttctcatcc ctacaactgg tactgggtgct 300  
 tgggagagtg ctctcacaaa cacactgtct cctggggatc gaattgtatc gttcctgatt 360  
 ggccaattca gcttgctttg gattgatcag cagcaacgcc tgaagttcaa tgctgatgtt 420  
 gctgaaagtg aatggagcca tgggtgcttag cttgatgatc tggaatcana gatagcttca 480  
 gataacttcac acactataaa ggcaatttgc attgttcaca atgagactgc aact 534

<210> 6073  
 <211> 512  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220077b11d1  
  
 <400> 6073

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 aggagtgtaa aagagggttaa tatatatattt acagaatttc tgaaagagca gaaaaaagga 120  
 agtaaagaca agaatgattt gtgactcaaa tcctggaagg gatcatagga atagtgttct 180  
 gtaagtatgc actggcagca gcaactccac ttccaagctt tacaggataa cccacatctt 240  
 tgagtatcat ctctacacca gctagacatc ccaacagttg caactcattc aagtggccaa 300  
 gatgtccaat tctgaaaacc ttcccagcaa ctttgttcag tccaagacct aagctcaaat 360  
 tgtatctctt ccatgccctc ctaactattt cagtactatc aatgtaagca ggaacaagaa 420  
 cagcagtcac agtgtcactg taccactctt ctttttgggt gcaattcttc aaaccccatg 480

cctttacagc aagtctgggtt gctttgccta aa

512

<210> 6074  
<211> 527  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077b12a1  
  
<400> 6074

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cacttcatca gattcaacta aaccacacca ttcgcatcaa cacagcactt gtttgttccc 120  
aactccgaaa aatatcatgc tcctaacgta aaatcctcgg tttcaacggt caaccgcat 180  
ctcaaaaaac aaaactatgg catcactctc aggcatattgc tctcttccc cgactctcaa 240  
aaaattccca aaccaatccc catcgttgac cgaccctctc cgcaaagacc acgtgtcctt 300  
ccccgcacgc ctcgccgac ggaccctcag cctcgcgcgg ctccgtgcgg tggctcggga 360  
ggtttccgac ggaacgttgg cggcggcggg gaagaagggg ttggagaagg atccgcgcgc 420  
gctgtggcgg agatacgtgg gttggctata ccagcacaag gaacttggga tttacttggga 480  
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<210> 6075  
<211> 497  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077b12d1  
  
<400> 6075

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cactttcggtt aatgatggag attcaacatt gaaaccaaatt tattgcaggc aacttctctt 180  
ctgttggtcc gtgtattcaa acacaattgc aacattacca aaacatgaat tctggtagtc 240  
gtctaactca tgcatacaac ccatcaatgt tacattcccc aagaaaaacc ttgatgctgc 300  
gtggtgaacc acagctgcct tcgacaatca atgctctgtc attggcagcc atgtgtgcga 360  
taatcttgta aatcatttcg atatcttcag gagcatggca acggtctgct acttcttcga 420

gggtcaatgg ttctacaggt tctttgcagc ttgcctcatt tagcactgcc aacactcgct 480  
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<210> 6076  
<211> 521  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220077c01a1

<400> 6076

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gcaagaacct caagctgcgg ttattcaagc ggaaaatcga atctttggga ggaagaagga 180  
ggcatggacg agcttcttgc agtgggtgggt tacaaggtga ggatcatcga catggcggaa 240  
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gacctttcaa acgacgccgt tcattacaac cttccgaca tctccaactg gctccaaacc 360  
atgctttcca attttgaccc tctccctcc gagggagccg agaaggactc cgtctcgctg 420  
gactacgacg tcaaggctat tccgngaaa gcaatctatg gaggtggtag tgacgcgcta 480  
ccaaacccta tgcgcgtgag aaccgactag tcaacgcgcg c 521

<210> 6077  
<211> 458  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077c01d1

<400> 6077

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agacatattg acggtataat aacaaaactg aaagttggta acggggaaaa ggtataagaa 120  
atctcaacaa ggggattgaa atttattcat gcaaatttat gggtcattct acctccatag 180  
gccaatttgc tctcatcaga tcttcgacct gctttggttg ccacgcttat tctgcttgag 240  
ttatggcaac agtcggaact tttggaaaac ttgcgatcat gagagctaaa cttcatccca 300

ggatagactt tagcatcatc ctcacagat aagctttcat catgcataga gccagagccc 360  
ctaccctcaa attacgttga tcttgattta acagcgcgat gggttaagca tggatttaga 420  
tcattcagta ataggctcgc agattgggtca tcagagct 458

<210> 6078  
<211> 528  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220077c02a1  
<400> 6078

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taacatgttc ccttcttcca tctttctcct ttggaattct gagaattggg ttgaagaaga 120  
gacctctaga tcttgatagt attaattgctg ctagaaaggc aagagaaggt ctaagatctg 180  
taagaccaat gatgggtgca catgatcagt ttattggtaa gtcaaaaggt gaagatatag 240  
tacctttgaa gaattatttg gacgctcaat attttgggtga gattggaatt ggcacacccc 300  
cacagccctt cactgtagtg ttgacactg ggagttccaa cctttggggt ccatcatcaa 360  
agtgtactt tactcttgct tgctataccc ataattggta cacggctaag aaatcaaaga 420  
cacatgtcaa aaatggaact tcattgtaaaa taaactatgg aactggatca atatctgggt 480  
tcttcagtca agataatgtt aaagggtggca gtgctgttgt caagcatc 528

<210> 6079  
<211> 392  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220077c02d1  
<400> 6079

atggtaaata aaattcattt cttgggtgaaa aaatgacaaa taacatgaat tagaagcgca 60  
tttttatcca ccacattatt gggctcagac taagcaaacc taaaataaaa ggactcacga 120  
aatatataac tataaaatct cacaaaacaa tctatgcaaa caaaatcaca ctgtctactt 180  
aatttctaag gctctaattt aaccactttt ttgggttact tcttcatagc tgcacttaag 240  
cctgtataat gcaattctag taataacagc actttgtctg tgatgatttg tatcttcttg 300



atgatggatg gcaatgaaat cttggaaagg acttttttct ttccgaattg aaaatgattt 360  
gagctaaaact agctgtagat gattttggta ct 392

<210> 6080  
<211> 462  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077c03a1  
  
<400> 6080

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ggaaacaagg gtcacaagat aaaggggaac ttggtgatta tgcgaaagaa tgtgttggat 120  
atcaacagca ttaccagtgt taagggtgtc atcggaaccg gcattaacat cattggagga 180  
gtcgtcgaca ccgttactgc tttggcgctc cacatctcca tccagctcat tagtgccacc 240  
aaggctgatg gacatgggaa aggaaaagtt ggaaaggcta caaatttaag aggacaagtg 300  
tcgttaccaa ccttggggagc tggcgaagat gcatacgatg ttcattttga atgggacagt 360  
gactttggaa ttcccgggtgc attttacatt aagaacttca tgcaagttga gttctatctc 420  
aagtctttaa ctctcgaaga cattccaaac cacggaacca tt 462

<210> 6081  
<211> 455  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077c03d1  
  
<400> 6081

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cgagaacatt caatcacccc aaatacataa cttaccata cataggtaga tgaaggaatc 120  
atattccttc tattcacttt tattgaaaac cagggaaagt actgcaacaa ccatagagcc 180  
cctagatgga gatactgttg ggaattcctc tgaaagtcaa tccctcctca ctagaaggat 240  
agagcaaagt gtaaggcatt ttagccggcc cactgcggtt tctcaacgtc tcgtccttga 300  
tcttctgtat aagcttttgt tcaatctctt gaagcttctt tccaaacctc ttgaaggcct 360  
ctagtggacc agcatcagaa gtccaatagt caccaccatc tctctcccca aggtagaact 420

catcagatgt gtgccttgac aagattttta taatt

455

<210> 6082

<211> 556

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077c04a1

<400> 6082

ctcaaccaag gttgttcctt ccaccttcgc catgagtttc atctttggaa agcgaaaaac 60  
ccccgcagag cttctgcggg aaaataagag gatgctggac aaatcaatca gagaaattga 120  
gcgtgagcgg caaggattgc aaacacaaga aaagaaattg attgoggaga taaagaaaag 180  
tgccaaacag ggccagatgg gagctgttag agttatggca aaagatcttg ttagaacaag 240  
gcatcagggtt gagaagtttt ataagctaaa atctcagctc caagggtgat cactcagaat 300  
tcagactttg aaatctacac aagcaatggg tgaggctatg aaaggcgtga caaaggccat 360  
ggggcaaattg aataggcaaa tgaacttgcc atctttgcag aaaatcatgc aagaatttga 420  
gagacagaat gagaagatgg aattgacatc tgagatgatg ggagatgcaa tagatgatgc 480  
tttgaagga gaagaagatg aagaggaaac tgaagatcta gttaaccaag tccttgatga 540  
gattggaatt gacatc 556

<210> 6083

<211> 507

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077c04d1

<400> 6083

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ttcatctaatt cctggcaciaa cttcccaatt atgctatata tggtagatat gagcatcaat 120  
ttccccagta aaactggagt ccctgatatc atatagagga tagattacat ttttcttaaa 180  
ttgtctaacc ttgcctgtaa atcactatct atcccgccat catcattccc agtcgtttca 240  
acttgaggta cttttgtctt tgcagccggg gcagcaacag ctgatgatgg tgcatttaca 300  
agctcttggg tgatgtcaat tccaatctca taaggacttg gttactagat ctttagtttc 360

ctcttcatct tcttctcctt ccaaagcatc atctattgca tctcccatca tctcagatgt 420  
 caattccatc ttctcattct gtctctcaaa ttcttgcatg attttctgca aagatgggca 480  
 gttcatttgc ctattcattt gccccat 507

<210> 6084  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077c05a1

<400> 6084

gtgagtgtgc tccgtgatct ctcccttcag tagcaatgca tgatgattgc ctattgtaac 60  
 ccctaaataa gaaattttga cgacatgggc attgacaagt gtgggataaa taggaatctg 120  
 gtgtgattaa ttttaggttt accaattatg tgtgttgtgg agtctgatta gctagggttaa 180  
 tcttagtcga tttcagatgg ctttctcata tctagtttac aatgctatat tatttaggtt 240  
 ttttaagcac atactcctaa gacgcgcatt atcaattatt aaataatata tggaaagaat 300  
 ttgcatggg 310

<210> 6085  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077c05d1

<400> 6085

cccatcgcaa attctttcca tgtattatct aataattgat aatgcgcgtc ttaggagtat 60  
 gtgcttaaaa aacctaaata atatagcatt gtaaaactaga tatgagaaag ccatctgaaa 120  
 tcgactaaga ttaacctagc taatcagact ccacaacaca cataattggg aaacctaaaa 180  
 ttaatcacac cagattccta tttatccac acttggtcaat gaccatgtcg tcaaaatttc 240  
 ttatttaggg gttacaatgg gcaatcatca tgcattgcta ctgaaggagg agatcacgga 300  
 gcacactcac 310

<210> 6086  
 <211> 147  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077c06a1

<400> 6086

cttatcttgc aacagaccaa tctgcacttt gattctatga ttcattatca gtttgggggt 60  
ctcgctaaat ctgaaatttt ttctaaaaaa aaacttttgg ggattcgatt tattctggct 120  
gggcttgact gaaattgtgc ctatcac 147

<210> 6087

<211> 505

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077c06d1

<400> 6087

gacatctaataat aatctcgtga caattttatt gctaataagc tataacaacg tccaaaactt 60  
caacaacgat ctgctgcatg ttctaaaaca agtaccacaac tacaacattg tctaaaagag 120  
aagctgacat aaatgtataa catggtaaatt tttctaaatt ctgaatctaa gccagttttc 180  
tacttttggtt gggttacaaa tgtgtctaaa cttttaataa aaatctaata accaaaagcc 240  
atccatccct tcttttcttt cggtagagac tgggaggaga gtccctgcac ctgtttgtcc 300  
ccattgattt catcctcaac atgggtgtct tggatggaca aacttaacca aagttggtaa 360  
tcacctgtaa gtgtacatgc aagagcctgg gcacaaacaa actatggacc tacattctat 420  
ctttttaag tgcaataatg ccatgaaaat ggacagatag tgtaccccag tgacatgcc 480  
tgccatgccc gggcttagaa cgaat 505

<210> 6088

<211> 385

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077c07a1

<400> 6088

cgctctccga gatggccgcc atcgtctccc tcacgcctc cgctgtctac ctcatggcct 60  
tcttcggcat taccttcac ctcacccat tccttaattc ccgttctct cctgacgatg 120

acatcgacct cgacattccc aaattacctg tccccactcc ctgctccgct gcccttcctc 180  
caaaactccc tcttccccca ctccctcacc acgacgagga catcgctcctc gccgtcgtgt 240  
ccggctccat cccctgctac tcgctggaat cgcgggctcg cgattccac cgagccgcgt 300  
caattcggcg cgaggcggtg gagcgatatca cggggaggtc tatccaaggc cttcccgcgg 360  
aaagctttga atatgactcc attct 385

<210> 6089  
<211> 527  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077c07d1

<400> 6089

acaaagaaaa cagacaagag actaaaatat cacatccttg atacatgtgc tttagatgat 60  
gagaccgaca cacatcacat acatgtgatg aaaacaagtt tttcaacaaa agaccacaaa 120  
aaaaaataaa agagtaacaa aactaagtct tattcatgtt ctgtacacat cagaaacaga 180  
cattattaat gaagtactgt aaatgcaggt ttatctccca ccaacacgaa ttaattgtcc 240  
ttctgaagct aataattata caattgcatt gcaccccttg cttttactat tgacgataca 300  
aatttgaagt tcttgtccag ctaggaggca attttgggtga tatccttgct agatctgttg 360  
tatttcatgt ggctattaac aagttggcct gctgcaattg cagacatgag tgagagttcc 420  
cctgctagga ctgaacctgc tactatgggt gctagtaacc tagaatttgc acctggggac 480  
tctttgctcg caccctttac tcttaataaa ttaaggcatg ctgactg 527

<210> 6090  
<211> 271  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077c08a1

<400> 6090

ctctatcgaa ggtggcctac attgtctacc taatcgctc tggcatttgg ctcatgtcct 60  
ccgtcggcaa caccttcttt ctccacccat tcactcacac ccggattatt cctgaccatg 120  
acttgaacct cgagatcttc aaatcgctg ttctcacatc ctgctggcgt gcgctgtctt 180

cgaaactgcc tctttcgcta ctacctcacc gcgacgcgga catagcactc atcgtcgtga 240  
ccagattcat cccctgatac tcgttagaat c 271

<210> 6091  
<211> 481  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077c08d1  
  
<400> 6091

acataaaaa cattcacgag actataatct cacatccttg atacaggggc tttatatgat 60  
gagaccgaca cacattacat acatgtgatg agcacaagtt ctacagcaaa agacctaagg 120  
gtccatttac agattaacct aactagagcc taattcatgt acggtacaca ttatggtcat 180  
acattattaa tgaagcactg taaatgcagg ttaatttcct accaacacga attaatgggc 240  
cttttgaagc taatgatttt acaaatgcat tgcattcttt gctattacta ttgacgatac 300  
agatttgcag tatattgtgc agctacgagg caatactggg gatattcttg ctaggatctg 360  
atgcatttta tgcggctatt aacaggttgg cctgctgcta tggcacacat gagtgagagt 420  
tcccctgcta ggactgaacc tgctactacg gttgctagga acctagaatt tgtacctggg 480  
g 481

<210> 6092  
<211> 555  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077c09a1  
  
<400> 6092

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cccttcacat cccccagtcg ccgcactctc gcctccgtca atagcctctc tccgcgttct 120  
acccgatcca ctttgccac accgcaacgc actttcaaata accctaattc gcgcctcgtc 180  
gtgtcttcca tgagcaccga aacagccgtc aaaacttcat ccggctcctt cctcaaccgc 240  
aaggagtccg gcttcttcca tttcgccaag taccacggcc tcggaaacga cttcgttttg 300  
attgacaaca gagactctc cgagcccaag atcagtgtctg agaaagcggg gcaactgtgt 360

gatcggaact tcggcggttg agctgacgga gttatctttg tcttgcttg catcagtggc 420  
 accgattata ccattgaggat ctttaactct gatggtagtg agcctgagat gtgtggcaat 480  
 ggagtgcgat gctttgccaa atttgtttct cagcttgaga atttacctgg gaagcatagc 540  
 tttaccattc atact 555

<210> 6093  
 <211> 533  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077c09d1

<400> 6093

aaaaacaagc agaaagtcca cctttcatatc aaatattatt cagcaattcc taattccata 60  
 ttgggtttta caatgggggc aacatattaa aggggcaaag atccgtaata aactacatcg 120  
 gctgagcctg tcatataaac atgattatct tcttccctcc attcaatctg aagaggctct 180  
 ccaggtagat caaccgtgca attcctccca gcacgacct taagaactgc tgcaacaaca 240  
 gtagcacaag ctccagtcc acaggctagg gttgctcctg ctcccgcctc ccagacacac 300  
 attttcaagt gagaattaga caacacttgt acaactctg tgtagttcg tgcagggaac 360  
 acctcatgat gttcaaattt tgggccaatt tctgctagct tcaattcatc aacaagcaaa 420  
 ttctggcttc cttctctact gaaagttaca cagtgtggat ttcccatgct gacacaggtc 480  
 acatgccaga taactccatc tacaactagt tctgatttaa caacagcatt atc 533

<210> 6094  
 <211> 574  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220077c10a1

<400> 6094

ggtgagtaat gtgatcagta acaagtacaa tggtaatatt cttcataaca aagagatcaa 60  
 caacaacacc aacaatgaaa gcaacaacac aaatgcaacc gacaaaagg ttaagacctt 120  
 gcctgctgag gagacactcc cgcgcaatga ggtgcttgga ggatacatct ttgtctgtaa 180  
 caatgacaca atgcaggaag acttgaaacg tcagctatctt gggttgctc caaggatctg 240

agattctgtt agggctataa cacctgggtt accattatctt ctttataact atactactca 300  
tcagctgcat ggtatctttg aggcagcaag ttttgggtggc tctaacaatag atccaactgc 360  
ctgggaggat aaaaaatgca aaggcgaatc aaggtttcca gctcaggtaa gaatccgtgt 420  
caggaagctc tgcaaggcat tggaagaaga ttctntcagg ccagtattgc atcattatga 480  
tgggccaaag tttcgtcttg agctgtcagt tccagagact ctgggatctg tggacctatg 540  
tgaacaagct gggttcagcag cataagcaag aatc 574

<210> 6095  
<211> 614  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220077c10d1  
<400> 6095

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cagtacaaac agtagtctct ttgattgcat accaagtctg tacttttact taatcataca 120  
aaggtattaa atgttcatgc aaatgctaca aagcaccttt aaggggatag ataccacaac 180  
catttttatt caccaacaaa ggggtctctca ctctcaacac gctcccttta cttccccaag 240  
aagatgatga tccactttcc aagcttacgc ttcacggaaa atctgccaaa accacacagc 300  
tggcacacca aaacctacta cctatcttgc acattcattc cttgtgogat tcttgcttat 360  
gctgctgaac cagcttggtc acataggtcc aacagatcca gagtctctgg aactgacagc 420  
tcaagacgaa actttggccc atcataatga tgcaatactg gcctgaaaga atcttcttcc 480  
aatgccttgc agagcttcct gacacggatt cttacctgag ctggaaacct tgattgcct 540  
ttgcattntt tctctccca ggcagttgga tctatgttag agccacccaaa acttgctgcc 600  
tcaaaaatac catg 614

<210> 6096  
<211> 341  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220077c11a1



<400> 6096

aaacaattca tgactgaatc acaaagtaac cagtaccacg agcaagtggg ggtgatctca 60  
cagaaaaagc taaagaggag aagagtgtgt gtgatgggtca caggagcagt gctgctactg 120  
ctcattgtgc tagtcatagt ggcaattatc ttggccttta ccttgatcaa gaccaaagaa 180  
ccaagaactc agcttgtgtc tgccacttta gaaggatatag cacctcgtct cacacttgct 240  
gccattgacc tacaaatcaa tgtcacactt gacctcaagg ttcgggttga aaacagaaat 300  
cgtgctagtt tgaagcatga atggggaaag agtgtgttgc t 341

<210> 6097

<211> 390

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077c11d1

<400> 6097

aattcaggtt aagcttatgt ggaaaatttg ttatacagca acaaactaca tatatgattg 60  
tataaacacc aacaatggag gggccacac aacaaggggc tacgaaccac caaaccagcg 120  
agaaacgaaa ggagaagcat gcaccaccaa atatggcatt tgccggaagc acaaagggg 180  
ccccacgact tggaatgccg gggtagggcc ctcaagccag aaacgcctta ggccctaggg 240  
gaaacggact cgcgccaaaa atgaggccac tggaaacca agagggggact ctactgggaa 300  
attggcataa acgggacccg ccaggatcag acccccctaa caggcccatg ctggccggga 360  
aacgggcaag gctacaccta ccgcacaagg 390

<210> 6098

<211> 445

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077c12a1

<400> 6098

aaacaattca tgactgaatc acaaagtttc caggaccacg agcaagtggg ggtgatctca 60  
cagaaaaagc taaagaggag aagagtgtgt gtgatgggtca caggagcagt gctgttactg 120  
ctcattgtgc tagtcatagt ggcaattatc ttggccttta ccttgttcaa gaccaaagaa 180

ccaagaactc agcttgtgtc tgccacttta gaaggtatag cacctcgtct tacacttact 240  
gccattgacc tacaaatcaa tgtcacactt gacctcaagg ttcgggttga aaacagaaat 300  
cgtgctagtt tgaagcatga agggggaaaag agtgtgttgc tgtataaagg aatagaggtt 360  
ggagatgctt atataaaccc tgggtcttatt ccttcaaggg gttctactat tcttccatgc 420  
agactcacc ttcaggtgga aaagc 445

<210> 6099  
<211> 369  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077c12d1

<400> 6099

agggcctaaa tattcttata caccaacaaa ataaataata ttatttaaaa aaacctacaa 60  
ctgaatcacc cctatttcaa agagctaaca aaatcccaaa ccaagcaaaa aaataaatct 120  
cccaatttca cgcacaaaat aaacgattac ccagacctaa aaaagaggcc cctcccttgg 180  
aattccaggt taagccactc aatccaaaaa ccccttttagc gcttgggcaa actgacctgc 240  
caaaaaaatt gggccactga aaccccaaga agggacccta cccggaaatt tgcataaacg 300  
ctaccacta aaaccttacc cccctaaaag gccaccctg accgggtaac gctgaaccct 360  
acacttacc 369

<210> 6100  
<211> 356  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077d01a1

<400> 6100

accagctctt gagaattgag gaggtttttt ggtgctgaag cagtgtacgc cggagctggg 60  
ttgcgtaccc ccgttgaacc ctactaaagc tttcaagtgg aaaaaacctg gagatccaca 120  
cgagtttgag cattgagatt tgggtgctgc gctttaggag tgatatataa gttgatagtt 180  
ggaacattag tgttggtatg ataaagacac tcgccaataa ttagtgttct gattcacaga 240  
gctaggacag atatcgggtca agactatgaa aggtgcataa tgagatggac acttaatgct 300

tgacgccttc ttacagtgt aactacacac aaacatgggc gggctgcggc tagtga 356

<210> 6101

<211> 515

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077d01d1

<400> 6101

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tagaacacaa tttaatgtac tactatatca ataaaagaaa atatttattg cgtcctttca 120

ctttatttgc attagtacaa tatttctggt ctatcatgaa tcatggattt tatggataca 180

gttacctta caaaatttac ttagccacgg gctgaatagt aggtttgcat aatggtaaga 240

gcaagcagag cagcagctac cacaatccct atcaatttcc acacatttgg gatatgatct 300

ctaatacaaga ttttatagct gtgtttgcga gagtatctga tgcattctac acaaaggttg 360

caacaatgca acatcagtat agggaaacttc ctgaggggtt cactgctgag taagcattca 420

aggccttaca aagtttgctg gaactattgg ccatttggtc cactcccttt gtgattgtgc 480

caaacaaagt gagcaaactc ctggtgctga tctta 515

<210> 6102

<211> 404

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077d02a1

<400> 6102

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atcttctttg gtctcattac catctttctt gttgctattg gctaaatgct tggaaactgg 120

cgagccagtg gccattaaga gagttttact ggacaaaaga tataagaatc gtgcgctaca 180

gttaatgcac ttgatggatc atccaaatgt gatctctctg aagcatcggt tcttttccac 240

tacaagtgca gatgaacttt ttcttaattt ggtgatggaa tatgctccac agtctatgtc 300

tcgcgtctca aagttctata gtaatactaa tcagagcatg ccacttattt atgtaaaact 360

ttacatgcac cagattttta aggggctggc ttatatccac actg 404

<210> 6103  
 <211> 325  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220077d02d1  
  
 <400> 6103  
  
 gcggcattat attcaaatta atatgggatt aatacacaat cttagtccat ataaaataag 60  
 aagatcacat atttcagtat gaaaattcgt cggtagaagt gtttgaatag aataggattg 120  
 cttggtacag tatgaaaaat tgtgttataa aaaatatatg ggaacaaatt ctcatatttc 180  
 ttcttcagag agatgggtat taaaatactc tttgtaaatt atgtaagaga gcaccattat 240  
 gtccttacct attttccatt tcaagtatat tcatacaatg tccagtccac agagtccctt 300  
 gaccacaggc atgggtgcag ggacc 325

<210> 6104  
 <211> 604  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220077d03a1  
  
 <400> 6104  
  
 attggttcatt tctcaagttt tgttaaggac ttgtatggat tgggaggcag gagacttgga 60  
 gtgacttcac tcccaccatt ggggtgccta cctgctgcaa ggactatatt tggtttccat 120  
 gagaatgggt gtgtctcaag aatcaacact gatgctcaag gatttaacaa gaagctcaac 180  
 tcagctgcaa cgagtcttca aaagcaactt cctggtctta agattgcggc tttcgacatt 240  
 tacaagcctc tctatgacct tgttcaatcc ccttcaaaat ctgggtttgt ggaggcaaac 300  
 agaggatgct gtggtaccgg gactgtagag acaacatcct tgttgtgtaa tccaaaatca 360  
 ccaggaactt gttctaattgc cacacagtat gtgttttggg acagtgtcca tccttcacaa 420  
 gctgctaacc aagttctagc tgatgcatta attctacaag gcatatctct tgtcacataa 480  
 agactcgtca ttatttatgg tgtagacat tattattgtg tacaagtaca actacacatc 540  
 gtgaaagtga ttcaaaagtt tgctggtttt ctttagtttg gaaaaaaaaa actgtgctct 600  
 atga 604

<210> 6105  
 <211> 535  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220077d03d1  
  
 <400> 6105  
  
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 aaatttctca agatctaaaa tacatagagc acagtttttt tttccaaac taaagaaaaa 120  
 cagcaaactt ttgaatcact ttcacgatgt gtagttgtac ttgtacacaa taataatttc 180  
 taacaacata aataatgacg agtcctttatg tgacaagaga tatgccttgt agaattaatg 240  
 catcagctag aacttggtta gcagcttgtg aaggatggac actgtcccaa aacacatact 300  
 gtgtggcatt agaacaagtt cctgggtgatt ttggattaca caacaaggat gttgtctcta 360  
 cagtcccggc accacagcat cctctgtttg ccttcacaaa accagatttt gaaggggatt 420  
 tgaacaggtc atagagaggc ttgtaaatgt cgaaaaccgc aatcttaaga ccaggaagtt 480  
 gcttttgaag actcgttgca gctgagttga gcttcttgtt aaatccttga gcac 535

<210> 6106  
 <211> 128  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220077d04a1  
  
 <400> 6106  
  
 cttgactcat gctggttctt gggccgcgctc taggcctgat aggttgggac aacacgaaga 60  
 tggctcaaca ccatccgcag ggtgattgct tggttctgga cgacttccaa ggtgctactc 120  
 cgcgtgcg 128

<210> 6107  
 <211> 232  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220077d04d1  
  
 <400> 6107

caggtgtatt gattgagtat ttttactgga acatcccaaa catacatata tgagctcgat 60  
 ttaaacaggt acaattgaca aattacgcta tatcggggccc atattatcac catgtactat 120  
 agtgcacag gacttgggga accactatag aggatagacc acaatgggta ttacttgcca 180  
 cacctggctt gtcgaggatt actgatacag gcgacctcca ttgtagtagt aa 232

<210> 6108  
 <211> 581  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077d05a1  
 <400> 6108

aaccaagttg ggaaagcaat gatgggtatt ctttacctgt tggtttttatt gaaaggacat 60  
 ctaaccgagg aagagtttgt cagggatgga taccacaact agaaatattg gcacattcat 120  
 ctattggagg atctttgttt cactctggct ggggttctgt cattgaaaac cttcagtttg 180  
 ggaatacact tgttttatta ccctttaata tagagcaacc tcttaatgca aggttttttg 240  
 tggaaaagag attcgccatt gaagtgaaaa gaaatgaaga tggatcattc actagaaatg 300  
 acattgccgc atcccttaga caagccatgg tattggagga aggaaagaag atcagaaatg 360  
 atacaagaga agctgctgca tttgtaggaa acttgaagct gcaccaggat cactacgtag 420  
 ctgcatttgt acagtttctt aagaatggaa tcaggacacc aatatgatgt tgaagaggat 480  
 cattactgtg tcttaattca tgtttatcat cagtttggtg aataaagtcc tactctttaa 540  
 gtcgtggttc aataattgca tctgtcttct atcttgaagg g 581

<210> 6109  
 <211> 458  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077d05d1  
 <400> 6109

aaaagagagt gtcttattga attcaaaaac aggagttggt tttagttacc cttacaagat 60  
 agaaaacaga tgcaattatt gaaccacgac ttaaagagta ggacttttatt caacaaactg 120  
 atgataaacc taaaataaga cacagtaatg atcctcttaa acatcatatt ggtttcctga 180

ttccattctt aagaaactgt acaaatgcag ctacgtagt atcctggtgc agcttcaagt 240  
 ttcctacaat tgcagcagct tctcttgtat tatttctgat cttgttgct tctccaata 300  
 ccatggcttg tctaagggat ggggcattgt catttctagt gaatgatcca tcttcatttc 360  
 ttttcacttc aatggctaata ctcttttgca ccaaaaacct tgcattaaga ggttgctcta 420  
 ttttaaaggg gtataaaaaca aggtgtattc ccaaactg 458

<210> 6110  
 <211> 165  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077d06a1

<400> 6110

atatcattgc ttgagattat cactaatgaa catctagtgt aggattaaga gagaatcact 60  
 aaattagaag tgagatctac aagattacta atcagcgact ttccatcaat taaatttcta 120  
 aatcagaata tgcacgtgt cttaaaaata acgtgtaact aatat 165

<210> 6111  
 <211> 567  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220077d06d1

<400> 6111

ctatcattac acaactaata tgtaaatctt tggtatcggg agtgtaaaaa ttaactttac 60  
 aaattctaata tacaaaagca aaattgctgc caaaaacca gctcatgaaa agaataatga 120  
 aattcaggca caagaatgag gatctgaacc tgatgcagtc aaattccaga atcaaaaacca 180  
 acagtgcacc ttagccatat ctgcaagcaa ccaagaaaac ttaaccaggg cctccccttg 240  
 gcttcttcac aagatatctt ggtccaaaat aagctcttcc agtatgtaca gtggcctttc 300  
 atggattcaa actagcacgg ctaatgaagt ctgtgctata atcttgatta ccaaatgcc 360  
 tcttcgaaa taatcttatt tcttcagatt gactgcgcgt caaacacctc gctttcacca 420  
 agtcgcattc cattaggtag atcagaacct gctaagctat caaaagctct aacaacctgt 480  
 tccatgctag gtctctttgc agctgaatgc cgnacacaag cagcagcaac ttcaatcatg 540

caatacaatt cactctcaac ataattc

567

<210> 6112  
<211> 186  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077d07a1  
  
<400> 6112

gtgactgatc atcagaggca atggcgagca ggtactgggc agtgtctctt cccgtccaca 60  
actcggcatc atctcagctc tggaaccaat tgcaggaacg aatctccaag cattccttcg 120  
acacacctct ctacagattc aacattccca acctccgctg tggaacccta gactttttcc 180  
tctccc 186

<210> 6113  
<211> 479  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077d07d1  
  
<400> 6113

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60  
tggggttaaaa ttgaatttat ttttaaaaaa aaaaaaataa aaaaaaaaaa aaaatttata 120  
aacaaaaata actaaaaaag aaaaaaacac aaaaaaaaaa aacaataaaa aaaaaaaata 180  
aataaaaaaa aaaaaaaaaa aaagaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agaaaaaaaa aaaacaataa 300  
aataaaaaaa aaataaacia aaaagaaaaa aaaacacgaa aaaaaaaaaa ataaagaaaa 360  
ctagaagaaa aaaaaaaaaa aaataacaaa aaaaaaaaca aaaaaaaaat aaaaaaaaga 420  
aaaaacaaaa taaaaaaaaa aaaaaaacaa aaaaaaaaaa aaaaaaaaac acacagaag 479

<210> 6114  
<211> 439  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077d08a1



<400> 6114

gcggccactc aaatccagca atggcctaca cggaacaggg cgttgcagga gaccaagctg 60  
acccgagctc agcgaaaaat gcagctggga ctacaacata tgctagagaa aatggaacaa 120  
gagtcgggca ggacaaatgg gatgaccagc ccgatactgc tcacagtatt aagcagctag 180  
tgagttccgg tgccgacact ggcacagaac ttaggtagct gcggagctct gatgggagcc 240  
gcatttcacg tgcagcaaag cttgccagtg ctgctgactg gaggagaat caagacagaa 300  
gaacggcaac tagacctgtg tgctggctga cccctgtatc tactatgatg aatgatgcat 360  
gtgatgctaa cgaagctttg cttggtgttg actaatgtaa gggcccacaa acggctgact 420  
agcgatgcaa gactaatga 439

<210> 6115

<211> 540

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077d08d1

<400> 6115

caagcaatca ccgcgattct tcatttttca catcgaaaaa atccgcataa aagaattcat 60  
actaaataac aaaatctata tgaaatataa atggctaaaa tacgctatgc tttccttaat 120  
ttgtttgggg aatcgaacct tgccaatgct aaaaagtcag tttgatagta tttcactatt 180  
tataaagtgg caaggggcaa ctctaacaat atctagaaat gttacaatgt acagctgaac 240  
caaaaaatga aatgatgtta aaagtaaaag gaatcacgta atgattgctt tatgcttaaa 300  
ccctttggga ttaattggat aatatacatt tcattggaat tctagaagga tgggttcagca 360  
atatggagca gtaataatat atactatatt gtaacctgtg aggcgttagc ttaatatgca 420  
tgcatggctg gttatccact tgaggaagcg atgcctattg cgtagcacga gacctagacc 480  
tcttcaatcg cctgagtggg ttcaagaagt aacgagccaa tgggtgttttg ggaactggaa 540

<210> 6116

<211> 400

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077d09a1

<400> 6116

cgaagctgca caattcactg ctgcccaatt cctcagaggt ggacctgctg gagatgctga 60  
tggttggttg aaggctactg gcgttcctta tactattggc ttcaccaa at agggcatcat 120  
actgcagcct aatacttggg aagatttttt ttgttatttt gtgtgcaa at taatgtgtct 180  
atgtagaata aataaattag ctttgttttc agcacagtgt ttgtgattct tcttgcaagc 240  
taggggtggaa tcatatcata tcttgtacaa attaaacatg agaaaactgt acagctaata 300  
catgcgaaat ttttatattg ctgtttgaaa aatgacctca taagtgtatt atggggaatc 360  
aatatatgga tattcatgca tcttaaaaaa aaagcaaaaa 400

<210> 6117

<211> 383

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220077d09d1

<400> 6117

aagatgcatg aatatccata tattgattcc ccataatata cttatgaggt catttttcaa 60  
aaaacaatat aaaaatttca catgtattag ctgtacagtt ttctcatgtc taatttgtac 120  
aagatatgat atgattccac cctagcttgg aagaagaatc acaacaactg tgctgaaaac 180  
aaagctaatt tatttattct acatagacac attaatgtgc acacaaaata acaaaaaaaaa 240  
tcttcccaag attaggctgc agtatgatgc cctatttggg gaaaccaata gtataaggaa 300  
cgccagtagc cttcaaccaa ccacagcat ctccagcagg tccacctctg aggaattggg 360  
cagcagtga a ttgtgcagct tcg 383

<210> 6118

<211> 500

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220077d10a1

<400> 6118

acagaatcgg cgaacgactc gcacagctaa agcacgccac accacacacc aacaccattt 60  
ctctctctct ctctctctcc gtcgcttccg ccaccgttgg ttgtcgtgaa tgccaccgta 120

tacgggcacc gctctcgctc tacagctggt gaaatgaatg gagtgcagaa cagaaggggt 180  
 cacaatgatg agaaaccttt tccaggatgc ctgggaagaa tggatgaatct ctttgatttg 240  
 actgggggatg taaatggaaa caagctactc acggacaggc ctcacgtga tgcaccttca 300  
 ctctgaagaa gtcaatcaga ggttgcaagg atcatgagtc ctaccttggg tgatcagata 360  
 gaggataagc tgattgctcc tgactcaatg agagctacaa atatgaaatt aaatggaaca 420  
 cccatcaaga tgctcataga ccatgaaatg tccaaagaag ttgcttccaa gcacaactta 480  
 ccaccaattg gcagtgc aaa 500

<210> 6119  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077d10d1  
 <400> 6119

gatgcttgat ttttcttttt ttgttttctc tttttacact tatgagggtta ttttggtttt 60  
 ttcatttttg aaaacacaca tgtattagct gtacagaaat ctgatgagta aggcccacag 120  
 ggatatgata tgattccacc ctagcttgga agacgaattt cacaaactga gctgaagcaa 180  
 agccaaagga aaaatcctac atggggacat taaccttgca cacccttcc cggaaaaaaa 240  
 cccccgggga ttacgctaga gtttgaagcc ctatcccggc gaaacccctt gcccaaagaa 300  
 cgccagtagc cttcaaccaa ccatcaccat ctttagcagg aacacctttt gggaaaagcg 360  
 ctgtatcgaa cagggcaggt tcg 383

<210> 6120  
 <211> 365  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077d11a1  
 <400> 6120

agaatggctc ccaaggggtt aacctttctg gctgtgttaa tatgcgtttc agcactgtca 60  
 ctgagtcctt ctgttgctgg ggaagggcaa aataatggcc ttgttatgaa cttctacaag 120  
 gaatcatgcc ctcaggctga agacatcatc acagaacaag tcaagcttct ctacaagcgc 180

cacaagaaca ctgctttctc ctggctcagg aacatcttcc atgactgtgc tgttcagagt 240  
 tgtgatgctt cactgttgct ggactccaca agaaggagct tgtctgagaa ggaaacagat 300  
 agaagctttg ggttgagaaa tttcaggtag attgagacca tcaaagaagc tttggaagga 360  
 gaatg 365

<210> 6121  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077d11d1

<400> 6121

agaaagaaca acctagcttt atgagtatga atatcataag cattggcact gccatcataa 60  
 cagcactcac acgcatacat aacataattt aacaccttga acatgccctt ttacccaact 120  
 ctaagctact tgcataggac tacatatata atatccttat tgaaattaaa aaaaaaacia 180  
 ccgtaacatc ggaagattaa aaaacatagc ctcttaatcc tcccatcccc atgaacctgc 240  
 aggggtctcg gttcattgaa ccagcccatt taaaggaaaa gaccttaatt attttttgca 300  
 taatatatta cagattttct tctcgtatca tagacaaggg gaggaaaatt caagggtcct 360  
 gaacatggtg cttgttggca acattgcact ggtttctgac ctcacccttt 410

<210> 6122  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077d12a1

<400> 6122

gaaggcgggtg aggacgtggg ggggggctca tttgatttgg gcatagcttt tgcaataaaa 60  
 cgtttagatg cctaacatgg cttttacaca aaaaattatg acatattgat gtctcttttt 120  
 ttgtgtggcc catgttgtca tacgttctag ttcattgatg cacctgaaat aatgctccag 180  
 gtggactagt gtgaatgctt aaaaagaaag aggaaaacat ctatttttta gttgctgatt 240  
 tgtatacttt actatctgat ccatattggt atgcttacat cacctgagtg ttgttaatag 300  
 cagccataga tccgccacgg cagaaaggca tgttggattt ttgccaaccg ccataggaaa 360

tatatgaaag gagggccacc atggcgtgtt tatatggcag aatttaacct tctgccattg 420  
ctaaccctgc attac 435

<210> 6123  
<211> 538  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077d12d1

<400> 6123

aatccagaac gataaaaagt cactctttca taggaattct acaatatttc gtttaattat 60  
aggtgcaaat agcaaactac tcgaaaagtg gcagaatgtt tgagaacaga ataacaaagc 120  
agttagttgt accaccatgc tttgccagct tcagtaaaat gacaaacatc agatctattc 180  
tctatactaa tctgctcaag acaaggaaaa aaaacacttc tcaactggat ccatcatcca 240  
ataccagatc caaatctaca taatttgatt tagaaaatcc tatgttagcc acatttgctt 300  
ctgcacaaca gtgcatcgaa atgacctgag ccaggggagc ttacctgttc gatacatgaa 360  
atgaccacaa gtcaccgtat ttcaactatc cacgttaact aaaaatattg ctcgatatcc 420  
aaaatcccag gaatcatcaa aatagcatat gtttagcattt gattcttcct tttttattga 480  
acttctaaa tacaatacaa gacactaaca tctaagaaat tcaggtcctt caagcctg 538

<210> 6124  
<211> 252  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077e01a1

<400> 6124

gttgggtgag ggatgatagc taccttttgt atgatgcttc tcaactgcctt tttggtggg 60  
gggtttcaat tgccttgcta atgggagaaa agatagagat tacacaaaat ggaggtggaa 120  
acctaagaac tgtgagattc caaggtttga tgcccgtggg atacttgaac atcttcgagg 180  
gaaaagggtg gtattcgttg gcgatctcgc tgagtaggac acattgggag ctcacgatat 240  
gcttgctgat ga 252

<210> 6125  
<211> 356  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220077e01d1

<400> 6125

agagaatcca aaaccagatt ttattagatt gaaaagcgta actgtacatt gatagaaaca 60  
gtaaatcctt tatctgatga acagagttac cccctacaa tccccattcc agggatgact 120  
ccccggggcca attcaattac attggccctc atgcatacct tttacaggct ccactaatca 180  
tcatatagca tttcaccagc agaaaggaaa gtctactggc tggctgggac aactggccct 240  
ttcacctgat atatcatttc accaatttga aaatcagtaa aagtaattgg aagtggagag 300  
ctgaataccc aagattatgc ctgccagaaa tactggaaac caagtgcttg agccca 356

<210> 6126  
<211> 429  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220077e02a1

<400> 6126

gcgaatatga catttttttaa taatagtaag atattttcct taacaaaaaa tgtcatattc 60  
gcatacaaac tactcatgat acgacattct ttgttaagga aaatatcttt ctattattaa 120  
ggccccaccc aacctacgac tttgaagtcc tcttgataaa tactccacgt ggcgtgatat 180  
atagatgcag atgatttgta tttgcatcac acataatctt tactgggggc ggcccccata 240  
cataaggctc ataccccgga aaataatttc ggaaccggac cccgggggca cccaccttg 300  
cgtcaatctg tttcgattat aaccttacgc aaacattgca caggttttgc ccctggggaa 360  
acaatttacc cgccaccatt cggcccctac ttacgatccg aaaatttaag ggggtcccccc 420  
ccggggcccc 429

<210> 6127  
<211> 503  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220077e02d1

<400> 6127

gaattggaaa tttttctata gactgctga tgctagatca tttttcacia tgagaacaaa 60  
tggatcagag ctgcaatatg ttaaaaagca cacaaccag ttacaataaa cacaatcag 120  
gctaacaaaa atctaatact atgtaggttg ttgtaacttt ccaaaggcc atgttgcagc 180  
agatctcaac tttgtgcagc atagtaagct aatgtatcta tgaaccattc attgcagtgt 240  
cagcatgatg tgcattggta ttttccagaa tttttccatt tgcttgagtt ctctgcctcc 300  
aatctgcagg gtcaacacca tttccattca acaacttggt gttctcttct ttgggtcctgc 360  
catctttgtt gtcttgggtg cttaattgga gcagcagtg tgcagcagca tttgtccggt 420  
ctggcaattc ttctaatttc ttctcaacga anaataccac caaattaacc gtataccang 480  
caacaactac atcaaccgtg taa 503

<210> 6128

<211> 595

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220077e03a1

<400> 6128

ctttcttctt cttcttctct tttcttcaa gattgagcag acgatccaag tgatagacac 60  
tcgttgcgat ggaacttgta gctgaatccg agcgaactct gtaccatac gtgactggat 120  
cctctgtagt cgctatcaaa taaaagatg ggattctaatt ggccgctgac atgggaggtt 180  
cgtatggatc taccctgcgg tataagagtg ttgagcgtat caagcctatt ggaaagcatt 240  
ctcttcttgg tgctagcggg gagataagtg actttcagga aattttgcgc taccttgacg 300  
agcttatect ttatgacaac atgtgggagg atgggaattc tctagggccg aaggaggtgc 360  
ataattatct aaccctgtga atgtataata gacgtaacaa gttcaatcca ttgtggaatg 420  
cacttgactt tgggtgggtg aaaaatgggc agaagtacct tggcatgggt aacatgattg 480  
gcattaatct tgaggacaac catgtagcaa ccgggcttgg aaatcatctt gctaggccaa 540  
ttctnctga cgagtggcat gaaaacttga ctttgaaga gggcgtcaaa ttact 595

<210> 6129  
<211> 435  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077e03d1

<400> 6129

gaaaagatca attcgaacca ccataggaat cttaaaaaaa taaatatgaa aacatcaagt 60  
ctcatttaat atccattaac accttgaaga gtctgttgg aaccatttc atatccattt 120  
aaaattctgt ttcatttcac attgagtcag ctaccatgaa ccttcagcgc cactgttgg 180  
attcttgaag gcagcgaact ccagtagct tttcaacgag aatggtggga aaacagtggc 240  
accttcatct gtaatttttag atatctgaat ttgttgaca gcagacctat cacggtataa 300  
aagcacacgc atgcattttt ccagtaattt gacgccctct tcaaaggcca agttttcatg 360  
ccactcgtca cggagaattg gcctagcaag atgatttcca agccccgttg ctacatgggt 420  
gtctcaaaa ttaat 435

<210> 6130  
<211> 495  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077e04a1

<400> 6130

gcggcttcgc ccattctcat ttctctctct ccagaaaaaa atatacattt atattatatt 60  
ttttatcaat aaaaaatcaa acgaataaaa ttttcatttt cttttgtttt tctcgtcttt 120  
gtttctcggg aaaattgatt tcaccgtagt aggagccaag aaaaattccg aaccgtgaa 180  
ctctttttcc tactacaaat gcaattttct tctctgtgtc tcccacactc tctctgctaa 240  
agtcgcaaac acaaccacga aactgtttc tgaagtgaag caatgaagtt tcagcctcag 300  
atctcgtgct gaatcatcga tccgagagag agagatagag aggagttgga ttattgattc 360  
atggaaccgc ggagatgaag ttctacatat cgacgagggg cataaagaga gtgacgatat 420  
ctaacagtga gggaaaggga tcggcgaaga cgacggcggg ggcggccggc tccggtcgcc 480  
ggatatcggc tcgga 495



<210> 6131  
<211> 343  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077e04d1

<400> 6131

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tttttttttt tccccactt aaaaaagaaa ttttgatgaa aaaattcca gttttggcag 120  
gcagtttagat caagggggct taaatctttt taaaccataa aaccgggttt aaggggggta 180  
tgggggggca gcttcattta ttccctattt tatggggcca gggcatagcg gaccgggtat 240  
caaacggggc aaagcggttg agtcaaaaac tgaagggaaa acctttttcc cttggaaacc 300  
ccatacgggt taactggtcc aacccccaaa aattttgcgg ggg 343

<210> 6132  
<211> 615  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220077e05a1

<400> 6132

caagaatggc acttcgttgc ttggtgatgt ccctttctgt tctcttcact cttggtcttg 60  
cgagagaaag ccatgccaga gacgaagatt ttggcatgc tgtttggcca aacactcca 120  
ttccaagttc attgcgagat cttctaaagc ctggccctgc aagtgttgaa atcgatgatc 180  
accctatgca aattgaagaa acacagtacc cgaaaacctt cttctataaa gaagaccttc 240  
atccaggcaa aacaatgaaa gtacaattca gcaagcctcc ctttcaacaa ccatgggggtg 300  
ttggtacatg gttaaaggaa attaaagaca ctactaaaga aggatatagt tttgaagagc 360  
tatgcatcaa gaaagaagcc attgaggag aagagaagtt ttgtgcaaaa tccttgggaa 420  
cagtaattgg ttttgcatt tcaaagctgg gaaagaacat tcaagtactt tcaagttcct 480  
ttgtcaataa gcaagaccaa tacactgtgg aaggagtga gaatcttgga gaccaagcag 540  
tgatgtgtca tatgctaaat ntcagaactg cagattnta ctgccatgaa gtccgttgaa 600  
caacagcttt catgg 615

<210> 6133  
<211> 430  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077e05d1

<400> 6133

accatatata tatagagaga gagaatacga agcacactga tcacaggatg atgctctctt 60  
taagtaggga agcagatctt atcagtacac ataggtaggt tgaaattcta gctctagcaa 120  
tctagctaga gaaggtagta cttgcacaac acacagcaca tgataattta ttttatacac 180  
aatctcattc tcatggtgct caagatgcat ggactaatta agcaacaatg ttggtctgat 240  
aggcagtgtc cacagataaa ttgggtaccc ataaaatggc cttgcttcca aggaaatggc 300  
aaacaggggtt agttccagga tcaactccca taagttgatg aagcatttga tgattcattc 360  
cagaagtatt tgagtggcaa atagcaagtg cctgagtttt gggccatca ccagccacca 420  
atggaaccat 430

<210> 6134  
<211> 219  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077e06a1

<400> 6134

cacatggttt cttcttcctt agcagaattt tgattttgat ttatatatttc tcttttggat 60  
catcttgoga aataccttag cttacctaag cctgaaactt ctgcttcctg agttgtatat 120  
ataacctgtg cttctgatag tgcgtaataa cttcaaaggt ctaggcctag catggaaaac 180  
aaccttaacc gggaaacaga agggcatggc ttgcctaaa 219

<210> 6135  
<211> 409  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077e06d1

<400> 6135

gtaaatacat ggactaaagt gaagatttca taaaattagg aactaaaata atcagcattt 60  
acaatgtcag ggactagaat ggggtttact caagaaaaat ctaaaacttt tcaactcatgc 120  
ccctcccatg tctgaccact gaaggttttc agtaaagatg ttggttgccct cattattttc 180  
ttcctcattt gagacgtcta tgtattaaca tacatgatgt attccttgaa ctattggagt 240  
gtgtgattct cgaataagct cctaaactaa atcattttta tccgagttca caaactttca 300  
agttatttat tttcagtctt ttcggcgtga tcatggctcc caagtcttaa atgggagcca 360  
tttctgcgt gggttttgct ttctctcact tgtggcaatg gcaaggta 409

<210> 6136  
<211> 281  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077e07a1

<400> 6136

gtcaaataaa ataaaaaat caaatatggc attcagcggg acccaacaga aatgcaaggc 60  
ttgcgacaaa actgttcact ttgtcgaagg tttatctgcc gatggagctg cttatcacia 120  
gaactgcttc agatgcagcc attgcaatgg ccttcttgcg ataagcaatt actcatccac 180  
cgaaggagtt ttgtactgca aggtgcactt tgagcagctt ttcaaggaaa ctggaaccta 240  
ccccaagaaa tcccagtcgt ctggaaagcc tccactcgag c 281

<210> 6137  
<211> 443  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077e07d1

<400> 6137

caggttatta tttgtacata ttttccatgg gttcaacca tgttcttgaa actatgtaaa 60  
cactatattc gttggaaatt aaaggtgcat gagctcaagc caaattcgcc caatatgtaa 120  
cgagctcctg ggggaactaa ttcaaaaacg aaatgaacag gattaaacca aacccaaaac 180  
cagtttacc atcatgtttt caccgtgcta cctgcttttg aagcatgtga aaacaaaatc 240  
cccgttaaaa agagaaaggc cctttaaaac ctacaaatta tctccccccc gaggggggaaa 300

aatgaggggg gtggcccttg gggcctaccc ggaaattcca aagggtttac cccccagaaa 360  
accttgata caagcattta ccccttctgt ggcccccaaa ctaaaatcgg gcacctcacc 420  
cactcagttt gggggaccaa tta 443

<210> 6138  
<211> 567  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077e08a1

<400> 6138

gcttcgcgcc tactatttgt tgtcttaaca gtttgtgtta gtcattgaggt ccaattcaat 60  
ggaagcaaga aaccaagagg tgaataaat tatttagtgg aggaattat tgaggattta 120  
caagcagtat ctgaaagcca gaaagaaaca aaaaatagga aaatgaagaa gcaaggctct 180  
gtagcggcat ttgattccta tgttctggct gccgtttgtg ctcttgctg tgagcttcag 240  
ctgttccta tgatctcag aggagacaat cactcagtc ccaacaatgt aaaaatata 300  
gccaaagcctg tcaaataga tggatcttcc catgcattgc agaattggcat agattcagca 360  
atacgccata ctacagaat tttagcaatt ttagaggcgc tgttttcatt gaagccatct 420  
tctgttgga cctcatggag ttacagctca catgaaatag ttgcagctgc tatggttgct 480  
gcacatattt ctgaactatt tagacggcaca aaagcttgat gcgtgctctg cctgtttgat 540  
gcgtacaaat ggatgatgaa attactc 567

<210> 6139  
<211> 475  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077e08d1

<400> 6139

agcagaatga gaagggtttac ttatttgcaa accatttaag ttcctaaaca tagattacat 60  
caagggttta tacaatctt gagataatat ctgtcatgaa aagcttaatt taagttccta 120  
aacataaatt actaagatga ttacatatgg tctcatttca tttcagatag aaatagcaaa 180  
gcctaagtca tccgcagctg tgtaagata ttcaatagac aatccatttg aaagccggct 240

gtgagcttcc catgtcaagc agttttctac gtcagctcgc cagtcaatga catcaaaatt 300  
 taagtactga tcatggatgc cattcttttg cagtggctta ggactcgatc caattgaact 360  
 agtatgcaaa atgtcacgaa taaccgaact gctcagagca cggacatgtg cacttggatg 420  
 aaaaaggcat ctgattgtag ctggtaggcg acactttaac aggtttgaaa gccca 475

<210> 6140  
 <211> 138  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077e09a1

<400> 6140

tggtcactgg ccattaaatc tatttatacg cttagaagac cttataacct ttataataaa 60  
 tttttcttca ttatgatgtt tcttaattgc atttgaagtt tatgctttgg ttcagggaaa 120  
 agtaaaattt gatccctg 138

<210> 6141  
 <211> 138  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077e09d1

<400> 6141

cagggatcaa atttgacttt tccctgaacc aaagcttaaa cttaaaatgc aattaaaaaa 60  
 catcataatg aaaaaaaatt tattataaag gttataaggg cttctaagcg tataaataga 120  
 tttaatggcc agtgacca 138

<210> 6142  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077e10a1

<400> 6142

ggcgaggaga aagatggagg ggaaggagca ggatgtgtcg ttgggagcga acaagttccc 60  
 cgagagacag ccgattggga ctgcggcgca tagccaagac gacggcaagg actaccagga 120

gccggcgccg gcgccgctgg ttgacccgac ggagtttacg tcatggctgc tttacagagc 180  
 agggatagca cagtttgtgg ccacttttct gacattgtac atcacgtct taaccgttat 240  
 gggagttgcc ggggctaagt ataagtgttg taccgttggg attcaaggaa tcgcttgggc 300  
 cttcggtggc atgatcttcg acctcgatga ctgtaccgct ggcattctcag gggggcacat 360  
 aaaccgggtg gagacatttg ggctgttatt ggcaagaaa ttgtcgtgc cccatgccga 420  
 tttctacatc gtgatgcaat gctt 444

<210> 6143  
 <211> 537  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077e10d1

<400> 6143

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 ttggtttttt ttggtttttt tttttttttt tttttttttt ttttttaaaa aaaaccgggg 120  
 ggaaattata aattaaaaaa aaaaaatccc aaaaaaaagc gctaaaaaaa aaaaaaaagg 180  
 ggccccttaa aaaaaaaaaa aaagggaata aaagggccca aaaacaaaaa aaaaccccc 240  
 aaaaaaaaaa aaaaataaac aatttaaaaa aaaaaaaaaa aaaccttaaa attaaaaaaa 300  
 aaaaaaaaaa aaaaaccaa attttaaaaa aaaaaaaaac aaaaccccaa aaaaaggggg 360  
 gtaatattag gggggggggg gcccccaaaa gttaaaaaac aaaaccccat taaaaaaaaa 420  
 acgggcacca aaaggaaagg gccccaaaaa aaaccggggg gaaaaagccc aaaaaaaccc 480  
 ccccataaaa gggccccccc aaaaaaaccc aggtgtaacc caccaaaagg ctcttgt 537

<210> 6144  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077e11a1

<400> 6144

ctttacagct atcattatca ttttgatgac ccatttcacc actttcttcg tctccgatt 60  
 tctccagaac agcaaggagg aatccattcc tcatcgtgc aattctcatc tttcactctc 120

tagattctca tctatctatc ttccaccctc ttctcttcta tacccttcag acgcagataa 180  
atattgacac catagctcct gcttattgtc gcccttcacg ttgcctcctt gatcaatatg 240  
atgctgtaaa actctgaaac tcgcagctcc agctcagcca cgtgttggtc taaagatccg 300  
tgccttgacc cttggcagtt tcagctttca aaagggctgg agtccctctt acgcataagc 360  
cactgaataa ctcaaattca cctgacttcc cgctcttccc ctctgtctct ctctgtctaa 420  
agtgcaaaga tttt 434

<210> 6145  
<211> 429  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220077e11d1

<400> 6145  
atgataatca ctatcatagc aaccccattht attctgaagt aaatgacaga ttataagggg 60  
gttgctaaac aaatctaaat acagaaaaga atgtaaaaca tataaacactc caagttgaag 120  
acaaacccta atcacattca cacaagtaaa aacacgtggg atgggtactta gtcgaagaat 180  
tccaattga acttgggagg acctgaatta ttgggtcactg aagaggggtgg ggggtggagat 240  
gtggcttgca cagggattaa tgggtgggaca gaatcaaaca acttccaatt tgtggtaact 300  
acaactcctg aggtggaatt ccttgagggt tgaacttggt gctcttgata tatggctaaa 360  
gaaatctcac ttgagttcct tgggtgatct tgggtgctgct cctgaattgg tgctaaggct 420  
aatctatga 429

<210> 6146  
<211> 569  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220077e12a1

<400> 6146  
gggaagatga gaagtgtgag cctgagacca gagcttcaca ttccaatttg ttcttcaaac 60  
cctccatcat gtgtcaaacc catcaaatta gtggtagcat catcgtatgg gaaaaatttg 120  
aaaaatccac cttccaaatt tgcaatcact cttagagagc acagaacaac tttggagcat 180

gcggcgaggt tgccattact gaaacatgat tccggtattg tggtaatggg agcgggtgtgt 240  
 gtggtgggga tattggcggt ggttctgagc gaggaaaagg ccttggcttt gggcccagaa 300  
 ggcccacttg tggaagagtt ttgggacaac gtgaggagat atggactcta cgctctcacc 360  
 gtcagcacag gtgcccttta caccatcttc cgccctatag cagaactttt caagaatccc 420  
 atttccgcaa ttctcatcct tgctcttttc ggggttcaat cttcattggg tctcaagtcc 480  
 tctttgacat ggttggtggt tctgaatttc ttacaacttt ggaactagac tacctccatc 540  
 atatatatgc aaaataacct cttatttat 569

<210> 6147  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077e12d1

<400> 6147

aaacccaac caaaaggggt tgccaaaatg aaaaaatcaa cccaaatcca agggcctaaa 60  
 aaggaatttt ccccccttaa attaccaaaa ttgaaagaa aatccccaca atcctacccc 120  
 cccaaattcg aaataaatcc caaccctaaa aaaaaaattc ccgaggggga aactaagctt 180  
 tgagcgggaa acgggaaaaa aatgggaaaa cgggggtgac catgttcatt ggggggggga 240  
 aaagtcccaa aagggttttg tttttggccc ggggggggca aaaaagttgg cccgggaggg 300  
 gcaaaaagggt tttggcttga gggcttgggg agtgaaaacc ggaaaacggg g 351

<210> 6148  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077f01a1

<400> 6148

cgcagagggt gctgcttcaa cgactgatat tatagatggc accattgact gctctaagta 60  
 gcttagcctg tagaaactct catgctcatc atggaccaac aactgctaca tatgagtcta 120  
 acgcactacc tacgggactt atgcctctga agcagacttg tgctcaccgt ggacttataa 180  
 tttgccaccc gccggatgat ctactaaaca gacccccagt ttggaccaat gcgttgcgcg 240



ctataaagaa tggacctctg ggctataatg cctgacctaa aagactaatc acgtggactc 300  
 tgactttcat gattataagc acggacgtgg ctccatgggtg caaaac 346

<210> 6149  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220077f01d1

<400> 6149

gagtacaagg tcaaggacct ttcccaggcc gacttcggcc gcctcgagat cgagctggcc 60  
 gaggttgaga tgccgggcct catggcctgc cggaccgagt tcggcccatc tcagcccttc 120  
 aagggggccc gcatcaccgg ctcccttcac atgaccatcc agaccgctgt cctcatcgag 180  
 accctcaccg ctctcggcgc cgagggttcgc tgggtgctcct gcaacatctt ctccactcag 240  
 gaccacgcgc ccgcccgcct cgcccgtgac agcgccgcgc tcttcgcctg gaagggtgag 300  
 accctccagg agtactgggt ggtgcaccga gcgcgcctc gactggggcc ccggcggcgg 360  
 ccccgacctc atcgtcgacg acggaggcga cgccaccctt ctcatccacg anggcgtcaa 420  
 ggccgaggag ctctatgaga agaccggngg actncccgac cctaacttca ctgacaacgc 480  
 cgagt 485

<210> 6150  
 <211> 532  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077f02a1

<400> 6150

tgaatcattc atcgctttcc accatttact cagagacgct ccttccttga ccacagggga 60  
 agtttgtttc ttttgatccc ccccgatca cccagccggc ccaaacccta cgcattccat 120  
 ccatgactct tgaacaggcg agtccattgc tctgtgggcg acggatctca acctctgccg 180  
 agagcgctag agactgatga agcaggccga cgactatgcc cagttcgag acatactcgt 240  
 gcctctgttg cgatccctac taaactaccg acagaacaac ttgctggaag cctataccgc 300  
 tttcgaaaaa accgccaatg cgtttatcca ggagtttcgt aattgggaat ccgcttgggc 360

tctggaagct ttgtacgtca ttgcttacga tattaggggtt cttgccgaga aggctgataa 420  
 agaattggct tccaatggga aatccctga gaagttggaa ggcgctggct ccgtccttat 480  
 gaaattcttt ggcacccttg cgggaaaagg ctctaagcgt gttggagcat ta 532

<210> 6151  
 <211> 495  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077f02d1  
 <400> 6151

gcaaaaacac aagatacatc acaattttgc atgtccaaca tagtcataga tccatccgca 60  
 gccaaaaatt cagggttattg caatgaggtc agtaacttta acagtttatt tccactggcg 120  
 gcatctttgc agcatacaac acaagtggaa cctaaactac aatccaattt gcaagagtta 180  
 gcatcatcca aacaagataa tgtagcttgc tttaaaaccg gagcagcgct gtgatatttt 240  
 gatggccata tgtttgggag gattctcaaa cattcagtac aataactaac ggctgaaaaa 300  
 actgtctcaa agtcaacctg tcattaccat gctttcttgc ccctctgatt tcagtgtcat 360  
 aaatgacgtt gtccctaaga atgacagggt ttccatttaa ttaggaaag ggtcttgctt 420  
 gctcaatata actaccttgt tttggggcaa agtaaccttt ataagattct tattatcagt 480  
 atggccacta tacac 495

<210> 6152  
 <211> 531  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220077f03a1  
 <400> 6152

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 cgggtggctc ctacgcccgc tccactgttc ctctaccaa tccaacctct tcttcttcgt 120  
 ccgccagcag caaaaagaaa ctcatcatgc tctctctcct cgccgccgctc ttaatcgttg 180  
 ccgccgccat ctccgccgcc ctagttaccg ttgtccgctc tcgccccacc agcaacaaaa 240

acgggccccca cctcgccac aatccacac aggcaatttc cagaacctgc agcaagacac 300  
gtttccctac tttatgcac aattccctcc ttgacttccc tggctccacc actgcctcgg 360  
agcaagacct catccacac tccttcaaca tgacctacg ccacgtaagc cgggcgttct 420  
acgcctncag cggcctctcg ttgccgcca caaaccacaa ggtagcgcg gcttacaacg 480  
attgcctcga gctattggag gagtcgatgg aggcgctatc acggtccctc g 531

<210> 6153  
<211> 502  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077f03d1

<400> 6153

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tttttttttt tttttttttt tttttttttt tttttttttt ttttttgggg gccaaaaaaa 120  
aaagggggaa aaaaatgtcc aaaaaattag gggggaaaaa aaaaaaattg ggggttgggg 180  
ggggaaaaaa aaaaaaaaaa gggggctaaa aaaaaaagcg gggaaaaaaa attattttta 240  
accccccccc ctggaaaaaa aaaaagggcc caaaaaaaaaa ttttggggga aaaaaaaaaa 300  
gggggcctaa aaagggaac cccttccctt tttcccccca gggggggggg ttggggggac 360  
ttttggaagg ggaaaaccct ttaaaaaacc tgggggggaa aaaatgggaa aaaaccggy 420  
gtaaaaggcc cccccggggg ggggaaaacc gggggccccc aaaaaaagg ggggccccg 480  
gaaaaaacc ccccccggy gg 502

<210> 6154  
<211> 576  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220077f04a1

<400> 6154

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ctaactgtca tcatacaaaa caatttttct tcatatctgt ctccgggaga gtcgctttga 120  
cgggaaacaa gggttttcgc tgcaattcta atcgggtcaaa ttggaatcgt cggatcaatt 180

tgtcatgaag ttcttgaggt gttctgcttt agatcggctt aatgatttct tgggtaattt 240  
 gaatctggga gaacgtacta tcaaaggatg ccttgaagct tatagttgca aacatgctgg 300  
 atcggataaa aaactctcca tcagtttgga gacagagatt cttgattatc ttgggaaatc 360  
 atccgacact gattcctcct caccagatca aaccttctta accagaacca gccgaaagac 420  
 attggtttac ctggttctaa cctgtatca catgtatccc gattatgact tcagtgcagt 480  
 taaggctcac cagtttttca cagaggaatc acgggacagc tntaagcaga tttttgatac 540  
 ctacatgcat gaagcttcca agaatgnggc tgaact 576

<210> 6155  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077f04d1  
 <400> 6155

caaatatggt ttttgataat attacaccag aggtgtgtcc taacagtcga gtatgataca 60  
 gaatccaaac ctacgatgtg cataggagga agatacagat gttaaactcta ctatattgat 120  
 acggatcgga tacatatgct atatctacga ctcaggccac actgaaacgg tctttgatat 180  
 acagaactac gcatctgaaa ccatcttata ttacagaact acacatggga ggatcagaag 240  
 tcttcatatg ctaactaatc gaggtagaag cgactcatat atccatgtca gcaaatatct 300  
 cttcatcgta ctcatggggg tatatcatca ataagcaggt ccgtcagcaa tcaagttact 360  
 aaaacaactg aatcgaaaag atacaatccg ctttaagcttt ctattgtaaa ac 412

<210> 6156  
 <211> 578  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077f05a1  
 <400> 6156

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 catcttgatga aatttcttag cttacctaaag cctgaaactt ctgcttcctg agttgtatat 120  
 ataacctgtg cttgtgatag tgtgtaataa cttcaaagggt ctaggcctag catggaaaac 180

aaccttaacc gtgaaacaga agggcatggc ttgcctaaaa ttccatcact agttcaacat 240  
 atatcatcaa atgatgaagg aaactttgac aatgggtgact tgaaaaatct aagctcatct 300  
 ttcaaagaga atgaaacaat cttagcagga agccaagggtg atgaacatgc agccattaat 360  
 catcggaata agcattcggt atctatcaac ataccattct cttgtgaaga gggttcagctg 420  
 cataacaccg taagagttct ctatagtggc gaagatgatt tctcttctca atcaactact 480  
 acagactcca agccaccatt accatgacaa tcaatgcaa atggcagtct gcactcagag 540  
 ccagcatgcg gtgtccattt taacaatcaa gacagcgt 578

<210> 6157  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077f05d1  
 <400> 6157

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 acaatgtcag ggactagaat ggggtttact caagaaaaat ctaaaacttt cactcatgcc 120  
 cctcccatgt ctgaccactg aaggttttca gtaaagatgt tggttgcctc attattttct 180  
 tcctcatttg agacgtctat gtattaacat acatgatgta ttccttgaac tattggagtg 240  
 tgtgattctc gaataagctc ctaaactaaa tcatttttat ccgagttcac aaactttcaa 300  
 gttatttatt ttcagtcttt tcggcgtgat catggctccc aagtcttaaa tgggagccat 360  
 ttctgcgtgg attttgcttt ctctcacttg tggcaatg 398

<210> 6158  
 <211> 619  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077f06a1  
 <400> 6158

gttgatgtta aggaaaggcg cgaatcccat gattttgttc aaaccttcat cagctatgcg 60  
 attgtctcct tgtgcgaaca ccacttcaat gagttccgga tcgggttcac ttttgtggtt 120  
 ccggaagggt ctccggatcc atgacaaccc cgctctcgaa gtcgcttcgc gtggagcctc 180

tcattctctac cctgtctttg tcatcgaccc gcatttcattg gaacccgacc cgaattcttc 240  
 cgcacccgga tctctctcgc cggtcttgaa ccgcatcaag ttcttgctgg agtgccctgt 300  
 tgaccttgac ctcaacctca agaaccttgg ctcaagactt ttgattctca aggggtgaccc 360  
 tgctgaagtt gtcattcgat gcttgaagga gttgcatgtt aaaaagctat gctttgagta 420  
 cgacactgaa ccgtattatc aggtctctgga tgttaaagtt aagaactttg cacttgctgc 480  
 tgggaattgag gttttctctc ctgtaagtca tacactcttc aatcccacgg atatcataga 540  
 gaagaatgga gggaagccgc cgcttagtta tcaatcgttt gtcaagcttg ctggggaacc 600  
 accatcttct ctctctact 619

<210> 6159  
 <211> 513  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220077f06d1

<400> 6159  
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 atgcataaaa taaaatatcc ctaacacgta taaactgcaa ctcaaagcac ggcagttgaa 180  
 aaaacgagta aaattttggg tcagccaatc agctgttgct tatatctttt agctccagcc 240  
 tcttgccctt cactctcatc taatttcttc ctcaaatttt tcagatcatc ttcactaacc 300  
 aaaccattta attctttatt caatgcatat gcctcgccca ttttccttct gcactcttta 360  
 ctgcgagaat catgagaaac cactggcatt gggtagtctt tgccaattat gcccaattgct 420  
 ttgggtctgaa tgcttntagg agcccgccag ggttcataaa tgtactccct gagcatatct 480  
 tttaagactg ggagaaaatg cctaatatag tcg 513

<210> 6160  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077f07a1

<400> 6160

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gaactcgggt ttctaacagg attagcggga atgatggatt tgggaactat agtggatcct 120  
cgtgtggatt ctaagatgga agcccattgc agaattatga aattgaaggg actaatagat 180  
ggcaaagatt ccgaatcttt gaaggaactg ctcgaaacgg gataagatta tattctgac 240  
aaactattta agggcatatc tcttgacatg tgagcataga acaggtgagg gagttggcag 300  
aatcatcaac cgtatcatgc ccatattccg cataacttgc acattcatta ccttctactt 360  
ctatgtcaga atctccta 378

<210> 6161

<211> 372

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077f07d1

<400> 6161

atcttgaatt tttattgttt acttattttc tttaccattt atggttttct aatggtatat 60  
ttacatctca ggattttata caaatttttg agataatata ctgtcatgaa aatgcttaat 120  
ttaagttccc taaacattaa tttcttacat gattacatat ggtctcattt gatttcagat 180  
agaaatagca cagcctaagt catccgcaga tgtgctaaga tattcaatag acaatccatt 240  
tgaaagcccg ctgtgagctt cccatgtcaa gcatttttct acgacagctc gtcagtcaat 300  
gacatcaaaa ttaagtact gatcatggat gccattcttt tgcagtggct taagactcga 360  
tcccattgaa ct 372

<210> 6162

<211> 436

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077f08a1

<400> 6162

ttcaaacagg acagttcctt tacgcttgta ttaggacatg tggtaggcct tcatttgact 60  
cagattcaaa atgctaactc actagatggt tatgtacttg catgtactta aaaactgtag 120

tggatctcca ttgactatct gcaatcatat ttgcttgctc aagtgtcaag gcaaccacag 180  
 gtagatgatt tcagtaaaac ctgtctatga caaaatcata ttatgtatgc tacagcaaca 240  
 gcagcttgct tatgtttgta atgagcaagc ctgcaccaga ttcagtttgg accccagaga 300  
 cctctacctg tactgctgca cagatTTTTct gcacctgtcc tgtaactgat aattacacta 360  
 tgatttgctt gtattatgtg ctatatcgat aacatatctt aatcagttat ggtagacaat 420  
 tgaagaagaa cttaac 436

<210> 6163  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077f08d1

<400> 6163  
 caccataact gattaagaaa tgttatcgat gaagaacaag agacaagcaa atcaaagtgt 60  
 aataattagt tacaggagag gtgcagaaaa tctgtgcaac agtacaggta gaggtcactg 120  
 tggaccaaac tgaatctggt gcaggcttgc tcattacaaa gataagcaag ctgctgttgc 180  
 tgtaacatac attatatgat tttgtcagag ccaggTTTTa ctgaaatcat ctacctgtgg 240  
 ttgccttgac acttgagcaa ggaaatatga ttgcatatag tcaatggaga tccactacag 300  
 tttttaaaaa catgcaagta cctaaacatc tagtgagtta gcattttgaa tctgagtcaa 360  
 atgaaggcct accacatgta ctaatacaag cgtaaaggaa ctgtcctgtt tgaa 414

<210> 6164  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077f09a1

<400> 6164  
 ggctaggaga atgatggaag cgcaggagca ctatgtgtag ttcggagcta accaacgctt 60  
 ctatagacag ctaatgtgaa cgtgagtgca gagagcttac gactgacagg actactcaga 120  
 gagccgacgc cggtgccaat ggttgacccg actgagtcta cgatcatggcc gatctacaaa 180  
 gcagggcata ctgtagattg aggtcacttt cttgagtctc tacataaccg gcttaaccac 240



actgggagtg atcatggcta agtattaagg agctttccgt tgagatgcaa ggagagtcgc 300  
 ttgtgccaac agtggcatga tcattgtcct agtatactgc aacgctggca tgtcaggggg 360  
 acacatgaag ccatcgatga cattatggct gtttctggcg aggaagctga acttgcccat 420  
 agccattcgc tgcactagat gcagtgcctg ggtg 454

<210> 6165  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077f09d1

<400> 6165

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 cctcattttt tccctctcct gtctcctgga ctgtaaaatc ctagagattc gctcttcccg 120  
 ttctcttctc aatctggtaa actctgcttg gcggtgacta accacccttg cttgatatat 180  
 ctctttattg cccatcatgc gaacaagcct ctcttctctc ttgagatctc cctcgtgcct 240  
 ctgtttgtgc agttcaacct cttgtctgtg ctcacgatca tgaagaagtc tctcttccac 300  
 tagacgctgt tgatatgcag cttcaatcag gggagcagcc tcttctcttt ttgctctttc 360  
 caaatgatcc atgggtttttg ctaacttctg cagtttcttt tccatttccct gtctttcccg 420  
 gagttgttca gtcaaagtca actccatcaa tgtctgcttg gtgattttgt ccccctctat 480  
 g 481

<210> 6166  
 <211> 163  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077f10a1

<400> 6166

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 ggccaccgac gcgatggcgg tggccgcgtc cgacgccgac gacatcctga tccgtcaggt 120  
 ggtgccagat gttggcgaag ccgaagagga ggacaacctg ctg 163

<210> 6167

<211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077f10d1  
 <400> 6167  
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 catactacat aaacaacatg ggcttaacag tttcctgata ctatacggag ataattttac 120  
 cagtacaaaa tgataaagtt cacaacataa atatttatac aaactcccct tagtccagta 180  
 tcacattaca accacaatca ggcataatct tggattttaa ggctggatgg atatatagca 240  
 gctacagtgg agaccatgga atttacttca cacacatttc gacctttgca aaacttggaa 300  
 tatccattct tttcccagct tttgccccat gaattcttaa tgatccagta agggttgggc 360  
 ttaaaacgaa tgggagcata tgcaccttta ccataaccaa cttgaagaac cccatgatcc 420  
 aaatgctttc cacaaatgta tgggca 446

<210> 6168  
 <211> 303  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077f11a1  
 <400> 6168  
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 ctgcagattc tgtaactcca tgcgacaatg tttacactct agagatgtgc atgactggcc 120  
 tggatagaga gaaagcacag gttttctaca aagaacaatc tgcttcagct gccattatga 180  
 ctgttaattc tggcattaga aaaattcttc cagattctga gatttgtgac tctgactttg 240  
 agccatgtgg ttattcaatg aactctgttg aaggagctgc tgtttctacc aattatggta 300  
 ccc 303

<210> 6169  
 <211> 372  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077f11d1

<400> 6169

aacggggaca aattttattta taaaaaacca ttcgacgcta aaaaggaaaa accaaaacaa 60  
gaaaaggccc aaacacccta aaaaggggta ccccaaaaaa gggaaaaaac ccccaaaaaa 120  
aaaaaccacc gtctggaaaa cgggccttaa ttaccaagg acacaacacg gaccctaaaa 180  
aaaaccccc gttcaaaaca acctcattcc aacacccaaa aatcgaactc aggaaaaccc 240  
actaccaac tatggaaaaa tctcggaaca ccaaaacacc acccatcaaa agccctccag 300  
ggccctgtc ttgcaaccg gaaccctcaa catacaaaaa cccgctcgga taaaacaaac 360  
tggttgacc at 372

<210> 6170

<211> 457

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077f12a1

<400> 6170

gcaatgctta tattttgggt ggccaagaca tatcacagaa ctggcatgtc tactctgctt 60  
gtgcagattc tgtaactcca tgcgacaatg tttacactct agagatgtgc atgactggcc 120  
tggatagaga gaaagcacag gtgttctaca aagaacaatc tgcttcaact gccattatga 180  
ctgttaattc tggcattaga aaaattcttc cagattctga gattagtgac tttgactttg 240  
agccatgtgg ttattcaatg aactctgttg aagggtgtgc tgcttctacc attcatgtta 300  
ccccctaaga tggttccagt tatgcaagct ttgagactgt cgggtatgac ttcaaagcgg 360  
tgaatctgaa cgaaatggtt cagaaggtat tggcatgttc tctaccaact gagttctctg 420  
ctgcagatca tgtggatggt gcaagcaagt ttggttg 457

<210> 6171

<211> 311

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077f12d1

<400> 6171

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tggttttttt tttttttttt taaccacat attattaaaa ataaaaaaat aaaaaaaaaa 120  
 aaacaaacaa taaaaaaaaa aatcgtagat aaaaaaaaaa aaaaaacaaa aagataaaaa 180  
 aaaacccaac aaaataaacac cacaaaaacaa aaaacaaaaa caacacccac acaaataaac 240  
 aacaaggtaa aaaaaaacat aaaacaaacc ccaaaaaaaa aaaattaaaa caaagaaaaa 300  
 aaacacattt t 311

<210> 6172  
 <211> 548  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077g01a1  
 <400> 6172

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 tgggtcattt ggccctgtct cagatggctg taactgttcc tgttggcagc gatttgtctc 120  
 tcagaagatc tgcggttaag gcacctaact gtaacttttg ggataaatca tgggcaccag 180  
 tatttacttt gtacttgaag gcaaacaact caagttaaag aagtcgtcat gtggtattca 240  
 tgtcagtgc acaagcaagt gtacccaaag ttaatgtatc acctttagag ttggaagatg 300  
 ctaaagaacc tccattgaac ttacacaagc ctaaagaacc ctatacagca acgattgttt 360  
 ctgttgatag gctagcggga ccaaaggctc ctggggaaac ttgtcatatt gtgattgatc 420  
 atggtggaaa tggtccctac tgagaaggac agagttaaag tgttattcca ccgggtgaaa 480  
 atccaaagaa accctgggct cctcataatg ttcgactata ttcaattgct tctacaaggt 540  
 atggagac 548

<210> 6173  
 <211> 289  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077g01d1  
 <400> 6173

ccaaaaaaga aaacaatgtt tggggccaaa aaaagcaatt aaaccgggtt tttggggaaa 60  
 agggggcaca aaaaaagacc cgatttgaaa aaaagggacc aaaaaaaccc cgaaaagggg 120

tctaaaaagg gacgggcccc aaaaaaaccc cccctttaaagg gggggggaga aggggggggac 180  
 cccccgcaag aaggggggggc ccaccctaaa aacaccaag gaaacaaccc ccacaaaagg 240  
 gggaaaaaac cccccacatg gcccgagaaa aaccagggg cccccaaaa 289

<210> 6174  
 <211> 570  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077g02a1

<400> 6174

agcaagggt tcaagtgtca ctactaatcc tctaaatgga tcttcttcat atgctaaatt 60  
 gggtagcaag aggttccgaa atagctgata tagagtatca aattctctga ctga 120  
 acttgctact tcccagggtta atgcaaaaga agaaaaattg ggaaaacctg agggtaatga 180  
 tttgccagat accaaaagta agaagagaaa gaccaataga atggaaaatg cagttaggcg 240  
 taagagaaaa tcaactctctg gcctatcaga tgtgaatgta aacacttcta atgggtgactc 300  
 tcaaaggcct gggagaaaaac tgaaacaaaa gaggaagggtg gaagaagtaa ctttagtaca 360  
 tcaactgcaa aatgttgaga taaattttat tggggtaagc agcaaataca gcttctctcc 420  
 tcaagctgca caaaatttgt gttgccttgc gtctgaagga aagtctgagc ag 480  
 ggaaaagata gaggcacaag aacatcaaac tgctcaaatt aattcagtgt atacagatgc 540  
 aaaaaagctt aactgcagtt cactggtaat 570

<210> 6175  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077g02d1

<400> 6175

agtgcaaaat aaaactataa attgtgataa taactttata aacagtcaca catcctccaa 60  
 cccacacaaa ctcatTTTTca tatacagtct atacagccct aggttaccaa tatatactat 120  
 aacaacttat taaatctagg tacaaaatgg gcatccactg agagtcaactg tccatggtag 180  
 taaatagtaa gccaacatt acatatatat taatgcgtat caaaatgtgg gagtgactcc 240

cttatttatt agtttagtat agttatgtgg acacactatt gggcaccctt ctgcatgtaa 300  
 cgccagggttc agagctagga gcaagcaact catatggcaa cacccttgca ccacaacggt 360  
 tccttagagt cccgatcaagg ttcttcttat caatgacctt ctctatctgt cgaaccttgg 420  
 cggaataatc gtagaacgc 439

<210> 6176  
 <211> 540  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077g03a1  
 <400> 6176

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 tcttcaaatg gtagcaagaa gacattgtta atttgagaga tggcgagtta cgaggctatt 120  
 aagaactttg atgatgatga tgatgatgat gatgatgtgg agatggcact ccccatagc 180  
 cagatctctg aatcaagatc tgccactgtt tcttccccca ttggccaaac taccocgctt 240  
 cacattcaca acattattga ggaacaacgc attatctcca ggcaccaacc tcaacccaaa 300  
 tctccgcgtc tggtttctct tgatgttttt cgtggtctca ccgtcgcgct gatgatactt 360  
 gttgatgatg ctggcgggact cattcctgcg ctcaaccatt ccccatggaa tggtttaaca 420  
 ctagctgatt atgtcatgcc atctttctta tttaatgatg gtgtttcgct tgcactctca 480  
 tacaagaaac tgacttgtgg agttgatgca tctagaaaag ccagtttacg ggctctaaaa 540

<210> 6177  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077g03d1  
 <400> 6177

ggcatgatta aacaaagttt tactagatcc aataataaaa aaccagttca tgcaaaaaaa 60  
 attggcattt ttaggctaaa agccacaata aataaaatat aaaactaaat ttacattaa 120  
 aatgcatcg ggtccaatga agcttactct cttgaaatct atcatttcaa gggtttaaa 180  
 gtaaaggcca aattatatcg caggggggct tttataaaca aacgctggtc catatataga 240

aaaggtaatg ccatcaagaa atttagggaa ctctaaactt tatccattat ccatgccggt 300  
gacgtcatca agagattaga agaatttgct acaccgggtc ttggtcttga tcaaa 355

<210> 6178  
<211> 509  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077g04a1  
  
<400> 6178

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gcttcttcca ctatgcattg cgcacttctg cgcttttggg ttcccttgct gctgcttgct 120  
agcttcagct atgctccttc tgtttcggcc acaactgaaa ttccagggaa tgaagtgaac 180  
acagatggga aggtgataaa tgaagagtta gcaaaaccaa gtctaaaagg acatgatgaa 240  
gaagcaaagt tcaaaggatt ttttccaaaa ccaattccta tagttaaac aattccaaag 300  
ccaattccta ttattaaacc tattccaatt ccagtttata agcctattcc aaaaccaatt 360  
cctattgcta agcctattcc aaagtcaatt ccagttgcta agccaattcc taatgaagaa 420  
gaaaaattca taggatttat tccatagcca attcctataa ttgagcctat tccaaagata 480  
attcctattg ctaaacctat tccaaagat 509

<210> 6179  
<211> 454  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077g04d1  
  
<400> 6179

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ccgagaactt cattgaacag agagcatgaa ctacttattt tccattacag tacacgagag 120  
gagtacgaag tttattttga gatacgatgt agctgtactt ataaaggcat ttagaaatgg 180  
aaccgataac tttatagttt gagatagagt attatactct tatggagttg gaattggctt 240  
gtgaattggc aatggtggtg gaagtggttt cttgaatttg ggggtgaagt gtagcttagg 300  
aataataggc tttttgaaga aaggcttttg ttttagaaat tcctccgact caacagtcgg 360

gatgggcttt ttcacttaaa tgggttttggg ataggcttaa taatgggaat tgggttttggc 420  
acaagtttaa taattggaat tgggtttaaca acgg 454

<210> 6180  
<211> 479  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077g05a1  
  
<400> 6180

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cctcgagaat tctttttgtt gaactcactt ctctcttgtt cgccacgcac tcttgtctct 120  
gcaagttgtc tgggttgctc gtagaccacc aggatatgca tttattgagt ttgatgatcg 180  
gagggatgca ctcgatgcaa ttcaggcctt ggatggaaaa aatgggttggc gtgtagagct 240  
ttctcataat tccaaggggtg gtggccgagg agggcgtggg cgtggagggtg aaggcacaca 300  
atgctatgaa tgtggtgaac ctggacactt tgctcggcag tgctgattgc gcattggatc 360  
acgtggcctt ggaagtggaa ggaggcgaag tccaagtcct tatcggcgctc gtacaagtcc 420  
aagttatggg tatgatcgca ggagttacag cctcgtggg agaagatctc caagacgac 479

<210> 6181  
<211> 338  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077g05d1  
  
<400> 6181

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gtaaaccccc tggatagggg cggccaaaat ttaacaaaaa aaaacttcaa aggggggaaaa 120  
aaggggccccg gggtcccaaa gcggaaaaag ccccccaatt ccaaacaaaa gcctgcaaaa 180  
ggtaaacagc cccatgggga aacggggggc ccaaacaaaa aagccccagg ggggggaaaga 240  
aaaacatttg ggggggcccc aaatgggaaa aggggaaccc cttttttagg cccaaacctc 300  
aaaaatcata tatcaaccag gggattttgc ccaagggg 338

<210> 6182



<211> 453  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220077g06a1  
  
 <400> 6182

aaaataatag aatttctagg gctttataac tctccatttt ctcttccgat catccaggat 60  
 cctcagagaat tctttttggt gaactcactt ctgtcttggt cgccacgcac tcttgtctct 120  
 gcaagccgtc tgggttgctc gtagaccacc aggatatgca tttattgagt ccgatgatcg 180  
 gagggatgca cttgatgcaa ttcaggcctt ggaaggaaaa aatgggtggc gtgtagagct 240  
 ttctcataat tccaaggggtg gcggtcgagg aaggcgtggg cggtgaggtg aaggcacaca 300  
 atgctatgaa tgtggagaac ctggacactc tgctcgggag tgctcgattgc gcattggatc 360  
 acgtggcctt ggaagtggca ggatgcgaag tccaagtcct tatcggcagc gtacaagtcc 420  
 cagttatggg tatgatcgca ggagctacag tcc 453

<210> 6183  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077g06d1  
  
 <400> 6183

cattggggat tttcttgatc atttaattct tgaccaacta ctcacaaaat taaaaaaatt 60  
 aaagaaacca atgggagaaa atataccgga tgggacccca ctatattgga ggggctacca 120  
 tttagtccaa taaatgctta acgtcgatac ccacgcaccc aattccactt tgataaaatg 180  
 gccccctgct cctaacaata agctcgtcta gtttaatgac ccagttgaga aaaatgggcc 240  
 ccctaccaaa aatacagtct gtggaaacca aaacattcgg ggaggcccca aatgggataa 300  
 taggaacgac ttttttatgc cccagggtcc aaaacaacat tc 342

<210> 6184  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077g07a1

<400> 6184

cgattccaaa ggtgcgtttc tgctgtgcta gggtttctgc atcttccacc tccgtcgcga 60  
tgaaaccagg cttcatctga ttccgatttc ccttcgctcc ttctctcct taacattcat 120  
cttcttcgat tcctctacaa attatgatta ttattatgat gaactccatc ttcgcctcgc 180  
ataaccttcg cgtcttcggt cccggcttga atcccttcgc accttattgc atcgccaatc 240  
actccctttt cctttccctt tctctcgtc aaattacaat tccctttctt ttctctctcc 300  
aacttctcct tctcgtttc tccgcacatg tcaattcgga ggacaccgtc tttgattcgg 360  
cctattcttt tgggggttac tttacttcgg ttaogcgctg tcgttttgct tatctttgtc 420  
gccggttctg cggttcgctg attgctgaca aagaaagaaa gaaagacaga tgctggagga 480  
acagcctggt gttttg 496

<210> 6185

<211> 541

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220077g07d1

<400> 6185

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aagggcatcc aagatgctaa aatagtaaaa catccccata cactacatag tagttttatt 120  
tcaattgtac atttattcat acaatacaga tacagtgcac gtctggatac gctttctgaa 180  
tgtacgtatc agcatatttt catgtcaaat ttgtaaagg gacgcaaaag ctagttatat 240  
taactttgat ctctctgaa tggcatccaa acacactatc aaacaccaac caaatccctg 300  
aaaagcaaat taactttcag agctgtaaca tgtctctcca gcagacaagt ctctctgacg 360  
aagtcgttc atctctcat aggccattc cagtcggggg cagtaatgaa gccgtgggtt 420  
aaatctgcta ttactgata tcaggtggca tgaaggctcc attctctatc aagaatntca 480  
cagcattcct cctncttttc ttggctgcaa tgtggaacgg cgtccagcca caagcacct 540  
t 541

<210> 6186

<211> 480

<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077g08a1

<400> 6186

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attaagtagt tgtgaatctt ttgcccttta ccatatgaag gtgttaactc gatctctatg 120  
ctggattgta tggaactgga gggataggta aaacaacgac cgctgtataa gtaattgtta 180  
tagctagtcg ttgttttacc tattccaccc attccatgta tccctttcct gagggcgcg 240  
ataatttctt acttttcaact gccgattccg atgaagcttt gtgttttaat cagacgaatg 300  
aaagtatatt aagcttttgc tctggattta tgtgccagta gaatgatctt aagattctaa 360  
ctttattatt tgtttatggg attatttggt ctattttggc caatagttca cagatctgag 420  
agtttcaagg cgtccctctt gctgtctatg ccagtaaadc gattgtaaga ttattaactg 480

<210> 6187  
<211> 559  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077g08d1

<400> 6187

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ttgcagaaga gacttgaaaa acattttaca aatttgaaaa actaaaaata atagactcgt 120  
aaatgttaaa actatatttg aatgaaatca tgtgaaagct ggaaaatata tgcgacatgc 180  
aagcgtagtt atcttgaaca cggacagcta cttaaccata ttgatgccat cgaattctaa 240  
tcccatttca cattgatcaa tgacttcaat gctagagaag taaacaatga tgcttggtgc 300  
gttttgctcc gtatgcaatt attgttctca ctgcatatat tttttcctta cacttgctca 360  
ccaattcatc agatccataa tttagtttgc cccttttaca aggttaggct aaatgatact 420  
tccctgcaag cttttgttac aaaacatgga cctcaatctg tggctaacat tcccatttgg 480  
tccatgttat tgacaccggt tgaaaacagc acacaattca ttaattttct gacactaagt 540  
ccacatgttc aattttgaa 559

<210> 6188  
 <211> 529  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220077g09a1

<400> 6188

ctaactcaca tagagattat cacttatcat ttactaagaa aggattaagg gaggatcact 60  
 ttctatacat tgatacgtcc attcctacct tgctgctact tttcatcttt tctatttcga 120  
 attcgggggtt gctgctgtgt ttcaactcta tcgtgttact aatatataca gatagaaaca 180  
 gactagagta aagtttatcg gtgcctagaa gaatagacat tatagagact agcaacgacg 240  
 tatgatcaca ccggaaacta gaggtgcaac tgattggcaa gatctgatat gagattttga 300  
 agaatgtag ttgcactata gttgtgcagc tgatgaaatg ggggctcctt gatcagcatg 360  
 gcctttggag aactttggat catacaagca tctacagaat gggccgtgag taggaaaagt 420  
 actgtatgaa tggttctatg gtgaagaaca ctactactac aacctcatgt ggagccttca 480  
 tttgcttata cttagtggtc ttagaagcct aattcatgtg ctttgggggt 529

<210> 6189  
 <211> 567  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220077g09d1

<400> 6189

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 agaataggaa ttgaacatac aagaggaagc aaagctatct tgctttggct taatttatac 120  
 catgaatgaa tcaactgtcaa tgtgatcata tgaacataca agaggaaaca ttagaaatgt 180  
 aatacacaga cttgaaagaa tataatcaca cttataaggt cactgtgatg tgcattgcaat 240  
 acacccaaac aaataagaaa caacttgaga aaaatacttt gactgaagct gatttttaatt 300  
 ttctttctgt gtgaaacttg aacttggtct taggccatgt ttgagtgtg ctttccacac 360  
 aagatcgatt ctgttaacat ctatggcccc aacttcgtga tgagaccaac ctttaaggcta 420  
 tgtaccactc ctntgcatg gcacgctga accactcccc tatcatcgtg tactcacaac 480

acccaagtcc ttccacgtct tctggaatct catggcttgc aggtcaccat aagtgaatc 540

ttttctaaat gantaaaatg gtgggac 567

<210> 6190  
<211> 160  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077g10a1

<400> 6190

ctcgcgatct agaactagaa ttaccttca tctttctctc agcttcacct tcaccttcac 60

cttccgaatt gtatcaaacc tcaaaaaatg gatcatcaaa acaaacacgt agcagtcttt 120

gctttccctt ttggcagcca ccttatgcct gtcttaaacc 160

<210> 6191  
<211> 379  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077g10d1

<400> 6191

ggttaattac ggggttatta ttaatggtaa ttgaacattt catttaggaa tcttagctaa 60

cttgctttgg ctaatttata ccaagattga atcactgtca atgggatcat atgaacgtac 120

aagaggaaac atcacaaatg gatacacaga actgaaagac tataatcaca cttataaggt 180

cactgtgatg tgcattgcaat acacaaaaac aaatgtgata caacttgaca aaaatacttt 240

gactgaagct gattaaaatt ggctttctgt gtgaaactcg aactgggtct taggccacgc 300

ctgagtgtg ctttccacac aagatcgatt ctgttaacat aaatggccac cacttcgcga 360

tgagaccaac cttcaaggc 379

<210> 6192  
<211> 122  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077g11a1

<400> 6192

gaaaactcaa gccctgatgg aagtggagat ggaaacggca ttggtggagc acaggctatt 60  
 agcgcggtgg ctgaatttct gctgcttggc tacatcgacg ttcttatatg gcgcatgaag 120  
 cg 122

<210> 6193  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077g11d1  
 <400> 6193

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 ccgcaattca tataagataa gctctaattg cccaatttcc ttaaacaacc aactcaccta 120  
 cacaaggaa ccaagattaa cactaaacat tggcaacaaa aaaatgaagc atgcttccat 180  
 caaagttaaa gtatgaaagc agataaaccg ttgaactcag gccattgaga ttttttcaca 240  
 acaacaaaact gcaaagggtca cctttagaag gaaaattccc aaataaactg tggcttgagg 300  
 caaccattct tgtccatgca atcaatatat acatccattc catgcttgta aaaccaaatt 360  
 ggggctatct tgtacccac attttttggc cttgaaattt tatcatgtgg ccaatggaac 420  
 caacaaaaag caacacatta tcaccatccc 450

<210> 6194  
 <211> 471  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077h01a1  
 <400> 6194

caaagtgtga agctatggga cttgtttata tatactgcca gggtcaagaa acacacagac 60  
 aatgaaagt ggagtgattg atagcgacga tgatgagatg gatgttgctg ggaacaagac 120  
 aaagaatggg catgctgtaa gcggctctaa caacttcttt gcagatatat aggattgttc 180  
 acaagtgtga tgaccctatt agtacatttg cgtgatttcc ttcctaataca atatattcag 240  
 acagacgctg gagccacatg atgaactacc tgaagtctcg ctaaagcagg agatgatgga 300  
 ctcgggccaa tgatgcaaca atatacagct tgtgtttttt acgaaattta tatgacactt 360

atccagttca ggtcaaacat atgcttgata ttcaattttg ctgttaccct ttcgaaaaag 420  
 ttatttacta taacaattct tgatcttgat cccaaattga taccttgggtg c 471

<210> 6195  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077h01d1

<400> 6195

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 agataaaaaa aatgtagtta acactagagt taatttatga aatgaaaata attaaagaat 120  
 taagaagcac aatcattact ttttaattaa tttatattgc ttgattttgc aactcattac 180  
 ttttattgcc aattaagtat tggctttttg ggcctatggt gtttgggcac gccaggaaaag 240  
 caaggaattc cagtaacctc aatccaatca gttccatgaa aaaacttaga tggtgagaac 300  
 caacgtgcag cttttgaatt gaggttccaa atcccagccc atttcacacg cttggatttg 360  
 tctgaaccgg ggccaatg 378

<210> 6196  
 <211> 552  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077h02a1

<400> 6196

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 attgtttctt agtgcacttt tttttggcat caaagagggt aaatccatgg attctgatta 120  
 tggatttccc agggaaactct cagatcttca aaagattcgg tcgttgtacc agccagagct 180  
 tctctcttgt ctccaggga ccaactgtgag gggtgaattt ggtgatgcaa ccaccactgc 240  
 tgacccact gatgcactca ccattagcag ggcgtttcct aacacctatg gacaccctt 300  
 ggctcacttt ctcagggcaa ctgccaaagt ccctgatgct cagatcataa ctgagttccc 360  
 tcctattagg gtggggattg tcttttgtgg gagacaatct cctggagggc ataatgtcat 420  
 ttgggggtct cacaatgctc tcaaaattca caatcccaac agtgttttgc ttggaatctt 480

ggatggatcag aaggtctgtt tgcccaaaaa actctggaga taactgatga tattctttcg 540  
acatacaaaa at 552

<210> 6197  
<211> 524  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077h02d1  
  
<400> 6197

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tcaataagag acaagtcaag gggtatgaaa tcataacaga cactgactcg atttgtgggt 120  
ctcaciaaagc atagccta atgtatcatc tatgtgacat ggtctacatg atattattat 180  
tacaggttga taaaaaaaga ccacataaat atctaatac aatttacata aaacacaatc 240  
catacactat atagttttga aggatccaaa gctaatacag atcccttcct gatctgctat 300  
ctggctacat caactgactg atgggagagg caatcttttg gcaatttcct ttgttagaaa 360  
agatgcaatc ttggaatttt ttttcctatt ccaagatcat ctttagcccc tccatagggtc 420  
tatatgagtt tgctacaact atcttcaggc agcaagaaca tcatggggaa aagttgctag 480  
tagcatagtc aacaatgtcc tcaaacagtt catttatatt atct 524

<210> 6198  
<211> 377  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077h03a1  
  
<400> 6198

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gacagtgcc ctatgcattg ggccgcttg ggctttggga ttccaagggt gcagctcgct 120  
agcttcagct atgctccttc tggcacggcc aacctgcta taccaggga tgaaccgaac 180  
acaaacggta acgcgataaa cgccgattta gccgccccaa gtcgaaaagg acacgacgaa 240  
taatcactgt tgaaaggatg tttccgaaa ccaattgcta ataggaaacc gatatcacag 300  
ccaattgcta gcatataacc tattgcactt ccagtgaata aggctatagc aatgccatt 360



cctgttggca aggctat

377

<210> 6199  
<211> 529  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077h03d1  
  
<400> 6199

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accgagaact tcattgaaca gagagcatga actacttatt ttccattaca gtacacgaga 120  
ggagtacgaa gtttattttg agatacgatg tagctgtact tataaaggca tttagaaatg 180  
gaaccgataa cttttagtgg tgagatagag tattatactc ttatggagtt ggaattggct 240  
tgtgaattgg caatgggtgg agaagtgggt tcttgaattt ggggtgaagt ggtagcttag 300  
gaataatagg ctttttgaag aaaggctttg gttttagaaa ttctccgac tcaacagtcg 360  
ggatgggctt tttcactata aatggttttg ggataggctt aataatggga attggttttg 420  
gcacagggtt aataattgga attggtttaa caacgggaat tatctttgga caggcttaat 480  
acaggaattg gcttaacaca ggaattagta tggttaggct tataactgg 529

<210> 6200  
<211> 127  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077h04a1  
  
<400> 6200

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ggaaaagtgg cagctggtat ccgagttaaa ctaatggatg tttgtagatc acaaaactga 120  
aataaaa 127

<210> 6201  
<211> 143  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220077h04d1

<400> 6201

tttttttttt tttttttgat ctaaaaacat ccattaattt aactcggata ccagctacaa 60  
cttttccagc actaaactct aatccgcca ataaaagctc ccgtttttat taaggaaaac 120  
catacatata aaagaggaga acg 143

<210> 6202

<211> 405

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077h05a1

<400> 6202

ataataacgg acacaatagg gctacattac ttttgatagc ctcttgcgag catgcggact 60  
cctcggaact gagctccgac tgacagacat ttgtctggct catcactcac tgatgccttt 120  
gccagcagta tgtgtagctc gaataccacc aagatttgca tacattgcgt tagatgatcg 180  
cgggatacta cttgatgcaa tagacgcctt ggtaggaaaa gatggttgcc ttgtagagca 240  
ctatcataac ttctagggag gcggacgata acggcgtgac ctcaggggca aaggcgctac 300  
ctgctagaaa tgtgggtaac ctagacactg cgatagggtg cgaccactga gcataggatc 360  
acagggcctg ggagcttaat ggaggcgagg cccaacaact tattg 405

<210> 6203

<211> 141

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077h05d1

<400> 6203

ggttgtggga tactaaacat gaacggcaaa aaaatcaatg ccagctgagt gcaaaactct 60  
gaacagaact acacctcaca cgagaagggt taccaaatta gaggcccat tatgagaccg 120  
ggagaaactc aagccaaata a 141

<210> 6204

<211> 389

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077h06a1

<400> 6204

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gtatttacia agatcatcgg gcgttatgat cttaactgca ctctgccgag catctgtgtt   60
catcttcact agcccaagat tgacgctctt aggcctagat gagaacatac tacaggcggc   120
aggaaccatc tgtgttgggc gaattcctat cttatttgct tatattgagt cattcaatcg   180
gcagacatta cttagatctc aaagcaggaa tgtctggata gcattcttgg cagctttagc   240
actaatcatt catgtgctgc tttgggtggct attgactata cagttcaagt gtgggattcc   300
tggggcaatg atgtcaacaa tctaggcatt ctggatgcct aatattgggtg cacttaggat   360
taatacgtgc ggggtggtgcc atgaaacct                                     389
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<210> 6205

<211> 470

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077h06d1

<400> 6205

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attgctatta aaatatataa attcaagggg taaatacagg aacatttaatt actttagcaa   60
ctacttatat aattttatta atttaagaaa tatttgagag agaatttact gataggatgg   120
tactatagta taataactat caagcaatcc cctgaatgta taacgtacaa tagccaatca   180
aacaatgatg atattgataa ataggagtct gaaactaatt atctgatgta cttgtttcat   240
gatcaagttg caccttatac cacttactaa tacgattacg ggctatagtt acctgctcat   300
ccaattagtg tttgtaggtg attatagcta ggactatagt tggaactagt gtcccaaaca   360
acattccaat ccaaataccc ttgacttgca agtgaataat gttaccaagt actattccaa   420
ctggaatacc tatgaggtaa taacacccta tgttcacata cgctacagtg               470
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<210> 6206

<211> 458

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077h07a1

<400> 6206

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 cttcttcgat tctctacaa attatgatta ttattatgat gaactccatc ttgcctcgc 180  
 ataaccttcg cgtgttcggg cccggcttga atcccttcgc accttattgc atcgccaatc 240  
 actccctttt cctttccctt tctctcgcgt aaattacaat tccctttctt ttctctctcc 300  
 aacttctct tctccgggtc tccgaacatg taaattcgga ggacaccgtc ttgattcgg 360  
 actatatttt tgggggttac ttacttcgg ctacgcgtcg tcgttttgct attctttggc 420  
 gccgtttttt gcgtagcggt gatcgctgat accgaaag 458

<210> 6207  
 <211> 561  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077h07d1  
 <400> 6207

gaaaacatca acaatcacag catatcacat taataatcgt acataattgt ttccataaac 60  
 aaggcatcc aagatgctaa aatagtaaaa catcccata cactacatag tagttttatt 120  
 tcaattgtac atttattcat acaatacaga tacagtgcgt gtctggatac gctttctgaa 180  
 tgtacgtatc agcatatttt catgtcaaat ttgtaaagggt gacgcaaaag ctagttatat 240  
 taactttgat ctctctgaa tggcatccaa acacactatc aaacaccaac caaatccctg 300  
 aaaagcaaat taactttcag agctgtaaca tgtctctcca gcagacaagt ctctctgacg 360  
 aagtcgcttc atctctcat aggccattc cagtccgggg cagtaatgaa gcggtggggt 420  
 aaatctgcta tcaatgatat cagggtggcat gaaggctcca ttctctatca agaattttac 480  
 agcatccctc cttcttttct tggctgcaat gtggaacggc gtccagccac aagcaccctt 540  
 agttctggca tcaatgtcag c 561

<210> 6208  
 <211> 604  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220077h09a1

&lt;400&gt; 6208

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 ccttgggcac gttgacttct catctgaggt tactgtctga ctccgtatta ctgatggagc 420  
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 agcccttgga gaaaggatta ggctgtcct gactgtcaat aagatggaca ggtgcttctt 540  
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&lt;210&gt; 6209

&lt;211&gt; 528

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;223&gt; Clone ID: jC-gmf102220077h09d1

&lt;400&gt; 6209

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 gtgatcaaac acacattgtg ggaaggcctg gcctgatgtt gcagccctca atgtgtctga 420  
 gaaaccaaag gactcgatga cagggaggta tgccttgatg ttgtatagtg gggtagcttg 480  
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&lt;210&gt; 6210

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 <213> Glycine max

<223> Clone ID: jC-gmf102220077h10a1

<400> 6210

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 ccaaaccatg cagcgcacgg cgttggcgac agatgaacca cggcggcgct ccggcgacgc 180  
 ggagggggag aaggtgttca aggggagcga ggtgttccgt gacacgtcag caaattactt 240  
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<210> 6211  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077h10d1

<400> 6211

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 tttctcaatc aatcaacagt atttatttac cttaccccat tcaaatacaa ttaatcatga 180  
 accaatcact ccaactccatc ttcaaaactc ccaaataaag cctaacctaa gagaagaaaa 240  
 gtgtaattac ccccatgaaa ctatgggtcg aagttacgac catatcaaac aattctcaac 300  
 tcaaggtttg gatatccagc tcgagctttg tgtcgttcaa atagatcttg aagtgttca 360  
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 <211> 211  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220077h11a1

<400> 6212

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ataacctgtg cttctgatag tgcgtaataa cttcaaaggt ctaggcctaa catggaaaac 180  
aacccttacc ggaaacaaaa gggcctgggt t 211

<210> 6213  
<211> 382  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077h11d1

<400> 6213

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cccctatttg tcaaaaaaat taatttttcc cccccaaaaa aaaaagggggg ttccccctcg 180  
aatgtttcca aattttgggg ccacaaaatt ttggaacccc ctttttgggg aaataaaaaa 240  
ggccccccaa cattataggt gggaaattta aaggttccca aaaaaaaggg gggtctcttg 300  
ttaccaaaaa taaaaatttt cttccaaaac cccctttgaa accccccctt tgaaaaaata 360  
tggctcccc caaaaattaa ag 382

<210> 6214  
<211> 440  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220077h12d1

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atacagcagc aaaagcatac ataagaaaac atagtagtaa gcattcatat tcatatatga 180  
tatatatgat aatcatcaac acgacggaac gacgccgtat ccagccagag ggtccgcattc 240  
agtgcgtttt gcgaaccttc ctttgattct tggcctcggt tcggtatacg cttttctcga 300  
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tgtagccttc ctatccgccg ccgagaactg cgccgtcacc gtcaccggtg ccacttttgc 420  
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<210> 6215  
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<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220078a04a1  
<400> 6215

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tattttaatt tggggctctt tttctacatg ggtttacata tagttctact tgtgggacaa 180  
cagagacggg tacaaagcat gggctctgaa agaaggcatg aaacgcagct acgtgaagca 240  
atgtgactat gttgccatct ttgacgccga ttttcaaccg gagcctgatt tcctctggcg 300  
aactgtccca ttccttgta acaacctga acttggtctc gttcaggcac gctggaagtt 360  
tgtgaatgcc aatgaatggt tgatgaccag gatgcaagag atgtcactgg attaccatct 420  
cactgtggaa caagaagtgg ggtcttgca ttacgccttc tttggcttca acggaactgc 480  
tggtgtatgg agaatttccg cggtgtatga gtctggatgg tggaatcata ggaccacagt 540  
ggaagatatg gacctggctg tccgagccag actcatagga tggaaatttt tgacctaccc 600  
aatcttg 606

<210> 6216  
<211> 601  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220078a05a1  
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tttttttttt tttttgttgt tggttgggag tttttactcc tgggggttaa ttttaagtta 180  
agaatccgta atggaaaaga cgaacaagtg agagtgtgag attctgttct gagtcactct 240



tgtgttgtaa tcgcgaaacc ttttccgatg aaaattcagc caatcgactc tcaggttctg 300  
 gccgagggga ctcagcttga gctcgccaag cgggttgatg agtcgaggct gaagcggctc 360  
 ctcgagcgcc agttctccgg tggtcttaga aattcggcgc cggaaaagat cgccggaaac 420  
 gatgaaacgc ttaacggctc caatgatttt gagccgagct cggcgtgttt agcgaaaatg 480  
 gtgcagagtt tcatcgagga gagccacgag aagcaactccg cttcacacca ccgcaaccga 540  
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 g 601

<210> 6217  
 <211> 513  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078a06a1  
 <400> 6217

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 ctctggggag atctttcaca cccggggacc caactttcaa taatggcaac aatgcttcaa 180  
 aatatgctat ctttaaaatt ggagattaga acatagcctg cgatagacca taaaatttct 240  
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 ttagctcgac atggaattta cccgatgtcc attccaatct ttaggcggaa acattagcaa 420  
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<210> 6218  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078a07a1  
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 ataagacgga gaggggtata caaagacagt tgcagaaaat tggaacaact ttcaaccttg 180  
 aacgtgtata tctaataatct cttgaagcaa tttttacatg ttagaagtaa tgattgtcga 240  
 gacattatat agtttccttt agaggccttt atcaataacg gaagcattta gatgtttcct 300  
 gctagaacct agaaatagtt tggaagaatg gatgcttccg agtgagtttc tctgtttatc 360  
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 atttcat 427

<210> 6219  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078a08a1  
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 ataagacgga gaggggtata caaagacagt tgcagaaaat tggaacaact ttcaaccttg 180  
 aacgtgtata tctaataatct cttgaagcaa tttttacatg ttagaagtaa tgattgtcga 240  
 gacattatat agtttccttt agaggccttt atcaataacg gaagcattta gatgtttcct 300  
 gctagaacct agaaatagtt tggaagaatg gatgcttccg agtgagtttc tctgtttatc 360  
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<210> 6220  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078a09a1  
 <400> 6220

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aagcagcatc ccttgtgttt caagcaagct tagaaaatca aatgaggaag cttattcacc 180  
 aaagtttgtc agcattggac cttatacag aggaacaagt agccaccttc tggccatgga 240  
 agagcacaaa tggcggttaca tgctggctct cttcataga actcaaaatc cagtgtcaac 300  
 cttggatgaa tgtggcactg tcattctagg cttggacgat gcagttcgtg caagctatgg 360  
 aggtaacatc aaatatgaag ctcatgagct agccaaaata atgttacttg atggctcctt 420  
 cttgctagaa cttcttctta gatgcgacc accaaacatg gttcctcaaa ttccaaaaga 480  
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<210> 6221  
 <211> 552  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078a10a1  
 <400> 6221

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 caagagcagc tgtaaagag gcaaggaaac agcttcttct atggagcaac caagatgaag 180  
 aagattcaac atttcagttg ggggtccctg caaccatgcc tgtggtcaag gaactctgtg 240  
 gactggacat tggagaaaga tacttgaaat ggaaaatggg gaaggacata ctggtgctca 300  
 cttaaataat tgaaaagagg attttaatac acatctctat gaagaagaaa cattataatt 360  
 gtttcacaaa tattttttat aagacagttc ttgatactgt accgagcaat gttattctat 420  
 acaaacacta tcgccgacga atatgcatac tgtattacgt gatttcctta tttcatatgg 480  
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 <211> 518  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078a11a1

<400> 6222

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 gcttctctgg cggcgcagct tttctcgggc ggcggtagag gccgaaaagg aactgttgct 180  
 cgtgccgtcg cttccgttgt tcgattactc tccgcctccg tatgcggggc ccaccgctga 240  
 cgagattctg gcaaagcgca gggagtatct gagtccttcc atcttgact tctacaagaa 300  
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 cgtggatgcg tttggaggga ttgctacggt gtgctgcggg cactgtcacc ctgatgtggt 420  
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<210> 6223

<211> 214

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220078a12a1

<400> 6223

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 gctgagagtt cttatctgac actcctgaag ttggcggtcac atcacatgac ggacacgatt 180  
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<210> 6224

<211> 339

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220078b04a1

<400> 6224

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 ctgaaaagca atctgtcaat acaatagaac aggtggacat attatcaaca ttggcagatg 180

ttgcattgga aagagaggat tttgaaactt ccctctcgga ttaccagaag gcactaacca 240  
tattggaaca actggtggaa ccagatgac gaaatcatgc tgacttaaact actatgcata 300  
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<210> 6225  
<211> 528  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220078b05a1  
  
<400> 6225

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cccaatacaa cagctcccaa tacaagcca tcaaataaac ttcagggaaa gatagctgta 180  
gtaaccgggg gtgattctgg aattggacga gccgtgtgca acttgttttc attagaaggt 240  
gctactgtga ttttcaccta cgtgaagggg caagaggaca gggacgcgag tgacacgctt 300  
gagattataa aaaaagctaa gactgaagat gctaaagatc cattggctat acctgttgac 360  
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<210> 6226  
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<223> Clone ID: jC-gmf102220078b06a1  
  
<400> 6226

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atgtgggttt atttattatt tatgggggta tctatttaat attattattt cccttaacgt 180  
tcactacctt ttggtagctt atatatctgc tccatccctg gcattctgca atgcttttta 240  
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tggcagctgc tacatgaaaa gaaaatggcg tgggtggctgg acttgtgggt tgtgggtctca 360  
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 gggaaatcaa agctccatat tegttaattt acagaaacat ggcaatcata aggggtcccag 600  
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<210> 6227  
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 <400> 6227

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 catcatattc tctgtggacg ggaccccaat aaggaggattc aagaatttgg agacaaaagg 420  
 ggttccattc ccaaagagcc aaccatgag aatatactct agtctttgga acgctgagga 480  
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<210> 6228  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078b08a1  
 <400> 6228

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<210> 6229  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220078b09a1

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cagccagaca gtagactttc ctttctgctg gtgagatgct atatgatgat tagtggagac 180  
tgtaaaaggt atgcatgagg ggcaatgtaa ttgaattggc acggggagtc atcactggaa 240  
tggggattgt aggggggtaa ctctgttcat cagataaagg atttactgtt tctatcaatg 300  
tacagttacg cttttcaatc taataaaatc tggttttgga ttctctganc caaaaaaaaaa 360  
aaagcgaaga agaagaggaa aatgaaaata acaaaaacaa tgg 403

<210> 6230  
<211> 585  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220078b10a1

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atgtggtgat ttgatatttt catcacacat gatctttact ctagtctttg ttaatacata 240  
tcatagatac ggcacaagaa gatgtataaa gcagctagga tggacacttg ctgtgtgtca 300  
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tacggttaat ttggtggtat ttttcgtga gaagaaatta gaagaattgc cagaccggac 420  
 aaatgctgct gcagcactgc tgctaccatt aagcaccaat gacaacaaag atggcaggac 480  
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<210> 6231  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220078b11a1

<400> 6231

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 cgattgagtg aagcaattat ctgagtatct agattctatc caggtggaat ttttttatct 180  
 taaacagagg ataagagtgt aattcgcttt gttgcaattt atttttccat ttattttagg 240  
 tggttggtga ctctaatttg tactaaactt tggcagagcc attttgattg aagtttttcc 300  
 atttttaatt gagaccatcc tcatttctcg aaatatactg taaatggaaa ttcgattcca 360  
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<210> 6232  
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 <212> DNA  
 <213> Glycine max

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<400> 6232

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 cactcccaaa tggactcaaa gtggcctctg aaacatcacc gactcccact gcgtcggttg 180  
 gcttatatgt agatttggtg tcaatatacg agactccgat aagttttggg gctacacatc 240  
 tgctagaacg aatggctttc aagaccacta gaaaccggag tcactttcgg gttgttcgcg 300



aggtagaggc aattggtggc aatgtgcagg cctccgctta tagagagcag atggggttaca 360  
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 agaaccctg 429

<210> 6233  
 <211> 116  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078c01a1  
 <400> 6233

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<210> 6234  
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 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220078c02a1  
 <400> 6234

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 nanngccang gcctgggggtg gnggttggtg tgtgggttgg acttttttagt aagcacttag 120  
 tttatgggaa cgactcaggg gttcctaatt tacggggtgc ataacaagtc ttatggtgaa 180  
 agactccatg ctacctctgg aacaatggat gctgcagttt gcagaatttc atgctactgc 240  
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 tgaggcttgt gacacacctg acatcaagcg gcagtgtgtg ctttgatctg taaaaagtgg 540  
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<212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220078c03a1

<400> 6235

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 agacttcata tacatagcgg ctctaaccac ctatagacat cactttcacg ttacaacata 180  
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 agtatc 246

<210> 6236  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220078c04a1

<400> 6236

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 agcccactgt cgcggtggaa cccgctcccg aacctgtctc cgtcgatcct cccccggagg 180  
 agaaggagga gaccaaact gaagccaagg ctaagaaaac caaggagccc aaacctaaaa 240  
 aggtttccag acctcgcaac cctcccactc atccttctta cgaagagatg gttaaagatg 300  
 caattacctc gctgaaggag aaaaccggct cgagccaata cgcgattgcg aagttcatcg 360  
 aggagaagca caagcagctt ccaccgaact tcaagaagct tcttctctac catttgaaga 420  
 agctcgtcgc cgccggaaaa ctcgtaaag tcaaaagctc gttcaagctc ccacctacca 480  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220078c05a1

<400> 6237

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 agctagcata tattttctagc ttctattcca cacgttgcaa aaaacagact ttgccttaac 180  
 caaaagaaaa tctgtcttta ccttaactca gacaactcgt ttggtgaacc atgaaaca 240  
 gtattcctgg atgggatttt gagagtgata catgtctcac caaccaaaga aagctcatag 300  
 ggccggacca agaacttggt gagtcctat ggaaaaatgg gcaagttggt atgcacaacc 360  
 aaacacatag gaagacactt gggaattcat ctaacttgag acaggtgcag aaaagtgatc 420  
 aatcagtatt aaagtctaac ggtccctatg gaaactcaag caacttggat caagaagatg 480  
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<210> 6238  
 <211> 326  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078c06a1  
 <400> 6238

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 atggaaggaa tatgcaaaag gcttggtggg aaaattaggg aagatgctga agctatttcc 120  
 cttgtaaagg gatggaggtc caaatggaag gcccatgctt gatctctagt ctcatctctc 180  
 agcaactgtg aatcaactgt tctgtttaat gggcgccaac atagcaaag agatagctgt 240  
 ggagaagttt agtgaaacaa ctgttgata caggctcaat agaagagttg cttggagatg 300  
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<210> 6239  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078c07a1  
 <400> 6239

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gcattgtcgc catgcacatg cagcttctcc acaacgaccg cgtcatcatc ttcgaccgca 180  
 ccgacttcgg actctccaac ctaaccctcc ccgacggaag atgccgcaac aacccaaacg 240  
 agttggctgt caaacgcgac tgcaccgcgc actccatcga atacgacgtc gcagccaaca 300  
 cattccgcgc tctctttgtc caaaccaatg tctgggtgtc ctccggttcg gtctctcccg 360  
 actgaacatt agtccaaacc ggtgggttca acgacggcta ccgtgc 406

<210> 6240  
 <211> 574  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220078c08a1

<400> 6240

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 ctttaattctg cttccagttc ctctgagtga tgggtatgat ctctctcac tcccacaatt 180  
 cccacattat agtaatcttc atcacctgct tctttgggtca taaattctag atcaaactcc 240  
 actccctgat cctccctttt acttcttatg tagcatgtat gaactcaaata catcaaata 300  
 atatgaccct ttaatctaag aagaagaaaa aaacacacac atacacacac acactttaaa 360  
 gtgcaaagtc taaaccaacc caccataagt cttgttccca tgcgagtggt caagctttat 420  
 gcgggttcaa acatgtcact tctctcccaa aacgaaaggc tcccttgctc ctctgaagtc 480  
 cttgagtctc tctggggtca gacctctaac cctgcttctt tccaagggtc aaaaccctg 540  
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<210> 6241  
 <211> 499  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220078c09a1

<400> 6241

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ttaataaagc aaaagcaaaa tgcacacaca ttccccaac aaaacatgct tattcaaccc 180  
 aaattggttt catatcacia aaaccaacag gatgttttcc tccttaccg tcccacccac 240  
 tcgaacagaa attctacgga aattaaaaat aaaaaaagct aaacttcttc tacctcaaatt 300  
 ctgaaaagtc taacaacaaa aattcaaaaa aaggaaaatt aaacaatcaa tccgattcat 360  
 aaaaccgatt ttgtctttcc ctactttcc gttgataatc tcaattactt agtacctgta 420  
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 aagcttggtg agctcaact 499

<210> 6242  
 <211> 553  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078c10a1  
 <400> 6242

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 cccaacagac tcatcaagca atccgacaac tattcccagt tcgcagacat cctcgtcctt 240  
 ctcttccgat ccctcctaaa ctaccgccag aacaacttgc tcgaagccta taacgctttc 300  
 gaaaaaacgg ccaatgcgtt tatccaggag ttctgtaatt gggaatccgc ttgggctctg 360  
 gaggctttgt acgtcattgt ttacgatatt agggttcttg ccgagaaggc tgataaagaa 420  
 ttggcttcca atgggaaatc ccctgagaag ttgaaaggcg ctgggtccgt ccctatgaaa 480  
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<210> 6243  
 <211> 458  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078c11a1  
 <400> 6243

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 accaccaacg gggaggtaca tgcagctacc ggtgcatatg actgaaacat gtttcaggcg 180  
 tgagcgacta tatgtaaggc tgggtgacatc actcaccag gtaatatagt tcgaataagg 240  
 ccagactgtg acaacaactt tgtactgctt aaagacccta ctgggaatga tgggtgtggaa 300  
 agctgtaact ctgatagcgt tgggtgcaaga tttggcccta cattagaatc aaaagaaaaa 360  
 catgctaacc atactagagc tgcgatatat acccgtaaaa tatgttgaac gtgatctacc 420  
 tattttataa aaaaaaagaa aaagggcggg caccgact 458

<210> 6244  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078c12a1  
 <400> 6244

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 tggatgttct atccaaggct gcaatgaaca aagggatgag caattatgtg tgggttggtt 180  
 atcgccatgc ttgtgcattc tttgttatgg cccctttggc atggcttttt gacaagaaag 240  
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 caattattga ccagaatttg tattatttgg ggatgaagta cacaacaagg acctttgccg 360  
 ttaccatacc caatatgctt cctgccatta cctttatctt cgcatgcatt cttaggcttg 420  
 agaagattaa aat 433

<210> 6245  
 <211> 632  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220078d01a1  
 <400> 6245

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 accaaagtga gagagaaaat gatgaagcca tcgatgetca gatctcttca ctctgccgcc 180  
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 ctcaaccccc tcgtttccag cctctccctc tacgatatcg ccggaactcc cgggtgtcgac 360  
 gccgatgtca gccacatcaa caccggatct gaggtagtgg ggtaccaagg tgacgaagag 420  
 ctcgaaaaag ctttgagggg tgcagatgtt gttataattc ctgctggtgt gccagaaaag 480  
 cctggaatga ctcgtgatga tctttgtaac atcaatgctg gcattgttaa gacactgtgt 540  
 actgctattg ctaagtactg ccctcatgcc cttgataaca tgataagcaa tctgtgaac 600  
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<210> 6246  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220078d02a1  
 <400> 6246

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 caaccctctt cttctttcta gtgttacaac agtgcacaaa caactctggg ttttcaataa 180  
 cataatatct ttctgagtct gctttttttt tctctcacia gaccattata ccagatccag 240  
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 cattgatgtc aatgtttgtg aaaggccaat gagtgaaaag ccctacgata tgttgctgat 360  
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<210> 6247  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220078d03a1

<400> 6247

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tggtgggcaa ttcattcattg atgttgcattg tcccagttgg atgcttggcc tggaagcaaa 180  
caatgtattc cagcgggtaca ctgttcctgc aacttgcattg atagtacata cctgactacg 240  
tcttaagaga cccctatata tcagattcca aaacagttca ctcacactct tatttctatg 300  
ctaaatatct tacactcacc 320

<210> 6248

<211> 517

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220078d04a1

<400> 6248

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ctcgtcgcgc tgaaggccgt gggctccgtg gcggactgcg ggaacctgat ctgggggagg 180  
caactgcgcc cagagctctg ctgcgccggg ctgaagaagg aggccgttct cctgcggcca 240  
tgccctgcgc gcgtctctc gccggccgag ggcagtgatt ccgccggaga agcaaagggt 300  
gctccggcgc ggtttttcga gaagtatccg gctctggtga ccgattctc tttcttcacg 360  
tggtacttct tgaacgtgat tttcaacatc cttaacaaga agatctacaa ttacttcccc 420  
tatccatact tcgtatcggg tatccattta ttcgtgggtg tggcgtagct gttggtgagc 480  
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<210> 6249

<211> 552

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220078d07a1

<400> 6249



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 ccttcgaaag aacaagcaca caagcaaata aatatcacgg agaatcatat tagcaattgg 240  
 gattcagttg agtgcagttg tatgtcagag gatctgaata gcaagttttc ctttgaaaat 300  
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 gaccaaggca taaggcaagg cgatgaagat cttgggttgt cttgtgatgg tgccaaaagc 420  
 cagaatgagt caacaatttc tattagaagg tatcataagt caaatgttga gtttcaagtc 480  
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<210> 6250  
 <211> 573  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078d08a1  
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 caggcagcta cggaatgccg ttttttggag caataagcga cagacacaac tacttctacc 180  
 accaaggacg cgacaagttc ttcgcgacga ggattgaaaa acacaactcc accgtgatcc 240  
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 acggtgcctc ctccccgac ctttcgaca acgacaaggt cgagaagctc aacgttctcg 360  
 acggcacctt catgccttgc accaagttca ccggcgggtt ccgcgtgtgc gcctacctcg 420  
 acaccaccga acccaaccac gcaatcatca aacagttctt ccttaacgtc ctcgccaagc 480  
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<210> 6251  
 <211> 557

002220"ETTES60

<212> DNA  
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<223> Clone ID: jC-gmf102220078d09a1

<400> 6251

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gtaaataggt tggtagcatg gatgaaggta ggtagttaaa atgattgaaa ctacatctac 180  
cactgtgagt tgtacgatga ggtggtatga agagtcaggt cctaaagcat acttgtgatt 240  
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gcattcacat tctacacaaa gaatacagca tgagctgtgg cctctagatc caattgatcc 480  
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ggctcccttc atgggtca 557

<210> 6252  
<211> 544  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220078d10a1

<400> 6252

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gcggtccta ggcaattaag tgctatgcat ccaattttca agttgttgga cccccacatg 180  
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aacttttggc gctttgacat ggatagcctc cctgcagatc tcatccgcag gggaatggcc 360  
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gctgatggaa tactaatctg gtctgcaata gaagactggg ttcgaaccta tgtgaaccat 480  
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tcaa

544

<210> 6253  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078d11a1  
 <400> 6253

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 tgagaagcag gcagtcaaag aaagtagatt caatcaggga gtcaaacaat agcttagcta 180  
 ggttatcaag gtatcctgtg agagttgttc tttgtgctta tatgatattg ggatcatccag 240  
 atgctgtttt cagtggaaatg ggtgaatgtg agattactct agccaaatct gcacaagagt 300  
 ttgtccaaat gtttgagctg ttggtaaaga ttatactaga ggggccaata cgaagttttg 360  
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<210> 6254  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078d12a1  
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 gacagacagg gttatacaaa gacagtttca taaaattgaa acaaccttca accttgaacg 180  
 ggtatatcta atattttctg aaacaatttt tacatgctaa aagtaatgat tgctgagaca 240  
 ttatatagtt tccttttagag gcctttatca ataacggaag catttagatg tttcctgcta 300  
 aaacctaaaa atagtttggg agaatggatg cttccgagt agtttctctg tttatctatt 360  
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 cat 423

<210> 6255  
 <211> 634  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220078e02a1

<400> 6255

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ccaattgagg agatttatct tctttctgag aatcattggt tctggaggag atttgtcact   480
gaccaagacc cagagacatc aaacgggact gctttaaatt ctcaaccaat agattgaaca   540
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<210> 6256  
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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220078e03a1

<400> 6256

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atctttttat ntataattta ttttattttt tataagatat ttaggggggt tattttacta   180
attgtggtgt gctattttcc atatttacca accaattaac aaaggatat atatcatcat   240
atcatcacca aatgaaatat tgggttggtt tttcttggtg tgggtggctac ttttgtggtg   300
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gcagccacag ctggtagctt ttaccaagac tttgaaataa cgtgggggtgg tgagcgtgcc 360  
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 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078e04a1  
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 gatataattga ggaggggtga tctgatgccg acttggttct tttggtgact acaagaccta 180  
 caactggaaa tacacttgcc tgggcagtgg catgtgaacg agatcaatgg ggtcgtgcta 240  
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 tagctactct gatacatgag gttatgcatg ttcttggttt tgatccacat gcctttgctc 360  
 attttagaga tgaaaggaaa agacggcgta atcaggttac tgaacaagtt atggatgaaa 420  
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<210> 6258  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078e06a1  
 <400> 6258

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tctactcctg cgccgacatg ttctacttgc cctcccgtcg cctgtccaac gccgatgac 180  
 tgtccaggcg caaacgctcg cgacagggtc tccgccatgg ccagtgagtt gcaactgcaac 240  
 aaagacggca cgggagttga taagctccag agcgggtgtga acaagctcgc ggatctgggt 300  
 ggggtcacgc ttggtcccaa gggaagatat gttgttctcg agagcaagta tggctcgccg 360  
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<210> 6259  
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 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220078e07a1.  
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 tcagtgtggt cctccaatct cgaatcggag ttcgacttaa tccgatccgt catcgattcg 180  
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 cgtgacgccc acgtcacta ctatgtggag ttgctgcgcc gccagggcat cgatttcgag 480  
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 ctggtctg 548

<210> 6260  
 <211> 526  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078e07d1  
 <400> 6260

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 aatagaaccc aaagaattaa tacttcttaa tggatattga taagccagag aaaatgtgta 180  
 agctttacaa tttaaagctg agaaaagaaa cctaggccaa attgattact attatttcat 240  
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 atcagaacca gcctgatgac tttttccaat aacacgttcc accttcagcg actgacaaac 420  
 acggtccaat ccaccgtgca ggtttgagca gaacctcatc aaatgcttca catcaaagac 480  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220078e08a1

<400> 6261

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 gaagaccgtt aacgccgaca acagcgccga ttcccgcgcg aattccaaca agctcggttc 240  
 gaacggcacg ctgtgcggca acgatggcgt tttccggctg ctcgagctgc agtcggagga 300  
 ccggcgccgg ataattgtgg aggcgaagaa gctggccgat gccgcgtacg acgacgaaga 360  
 cgcgccgttc agatcgaagc agcggcacca cgacgacgac taatacgact acgatgacga 420  
 gaatgtggac cgttctgcag agaacgggaa ggccgaggag gcgaagaatg tgaagcagaa 480  
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<210> 6262  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220078e08d1

<400> 6262

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 aagaacaaca aattgattat taaatgggtca aactaaagta aacctcaaag cattgttgac 180  
 ctcaactact ttctgtcatc cgaacaggat ttgaactacg tgtccaatct ccgcattaag 240  
 cactttatta tgaggctatt ggtttactgt acccattgtc atttgtgaat gagatgggct 300  
 gaaaataaaa ttgccttttg taaacaacca actgcggtaa tgctgaatat tctccagagt 360  
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<210> 6263

<211> 515

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220078e09a1

<400> 6263

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 ataggcatgc atatgagcag caatgccctt gccattgtaa cagatttggc tgacactgtt 240  
 aatgattgga atatcacaaa atcatttggg cgtcgcctcc ttcaagatta tgagcttccg 300  
 tcatgggttg atcaacatag actccttaat gaaaatgcaa gtccattcaa acgcaagcct 360  
 aatgttactg tagccataga tggtagtgga gatttcaaaa gcatcaatga ggcattgaag 420  
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<210> 6264

<211> 574

<212> DNA

<213> Glycine max



<223> Clone ID: jC-gmf102220078e10a1

<400> 6264

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 gtccccctt ctgtgccac ttccaaatct tctcctctcg ctatgggttg tggctcctcc 180  
 cttccagata gggattcaag gcagttgggt cgacccaatt ccgagaatgg tggagggcag 240  
 gacgccaaga atctaagggt caagcttggt ctcttaggtg attctgggtg tggcaaaagc 300  
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 tgggatactg ctggtcaaga gaggtacgct gcgttagcac cactctatta ccgtggtgca 480  
 gcagttgcag ttattgttta tgatataaca agcccagaat ctttcagcat agcacagtac 540  
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<210> 6265

<211> 501

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220078e11a1

<400> 6265

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 tateccaaga accatttgtg aagacagtga tcctatggac gtgctggttc taatgcacga 360  
 acccgtgctt cctggttcct tccttcgtgc tctgtctatt ggactaatgc ctatgattga 420  
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<210> 6266

<211> 450  
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 <213> Glycine max

<223> Clone ID: jC-gmf102220078e12a1

<400> 6266

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 tgtggggcct actcatgacc aaatagactt tgagctcttg gatgacttga ttggcgatac 240  
 ttacgctctg cacaccaacg tatatagcca agggaaaggg aacagagaac aacagattca 300  
 tctatgggtc aacccaccca atgactatca cacatactcc gtccaatgga atgctgcaga 360  
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<210> 6267  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220078f01a1

<400> 6267

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 tgaacttaga gagagctcaa tttagtccga gttatggaat gcctttgttg tactttatct 360  
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 gatgtaaata tcaacttcac caactcaa atagcatgtgt ttgattttcc attaagacgt 480  
 aactagttag tacttttccg tttgggaatt tgtgggtgag aaaaaacatt atgttatcaa 540  
 gaagataagg aagaagaatc aaaggctcct ggagttcaga aagctcta atgtcattgggtt 600



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<210> 6270  
 <211> 537  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078f05a1  
 <400> 6270

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 tgggggcttt ggatttcata gaagtatgat gccagtctt tttggagaca gggaccatt 180  
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 atcgaccatg gaaccatcgg ttgagcattc agatgatgat gttgatgaga ggaagaacag 420  
 tgatataact tacaagaatg accattacat ggtggaacct ttgaaagctc gcaagttttc 480  
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<210> 6271  
 <211> 530  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078f06a1  
 <400> 6271

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ttcctggatt agagggaccc cttgcttttg ttcttgaaac cgggtatgtg ggagcgggcg 240  
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<211> 490  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220078f07a1  
<400> 6272

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<211> 186  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220078f08a1  
<400> 6273

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gaaaac 186

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<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220078f09a1  
  
<400> 6274

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gaaatattca atggggagcc ttgaaactga actgatgaat cttaaggcca cagagttgag 180  
gttgggactg cccggctgtg atgaaactaa tgagaaaagt tcatccagca gtggatctgt 240  
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aaag 364

<210> 6275  
<211> 487  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220078f10a1  
  
<400> 6275

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atacaacact ataagccatc aagctgaaat aacaggtgat gatgccacaa actgctactc 240  
tgggcctgga ttgtctgaaa gatgcatcaa gaggaaaaat tactctgaaa tgggtggataa 300  
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tcctgaaagt tgtactggga aatcaggcgg tacagctcaa atgagtattg agtgtattaa 420  
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tctgatg

487

&lt;210&gt; 6276

&lt;211&gt; 319

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;223&gt; Clone ID: jC-gmfl02220078f11a1

&lt;400&gt; 6276

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gaggtgttat tcagcagata ttgaggagga aactacaccc tcgggttact aactctccct 180

tgctgtcacc catggtagcc aagaaagatg atgctggctc ttctggcagc cagcccttaa 240

gagcacttgc attaaactgga gctggtttat caggcctttt caggtcttct acactggcat 300

cagctgatga agctgagca 319

&lt;210&gt; 6277

&lt;211&gt; 537

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;223&gt; unsure at all n locations

&lt;223&gt; Clone ID: jC-gmfl02220078f12a1

&lt;400&gt; 6277

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catggggggg gggctctatct caaatgccag cctgttcaac tctacaattt attaaactatt 180

gcacctctt agactgcttc caattcctat gtatgatgga tatcatctat actaactccc 240

acaattccaa cattatagta atccccatca cctgcttctt tccagataaa ttctatatca 300

aactgcactg cctgatcctc ccttttactt cttatgtagc atgtatgaac tcaaatcatc 360

aatgaatat gacccttttaa tctaagaaga agaaaaaac acacacatac acacacacac 420

tttaaagtcc aaagtctaaa ccaaccacc aaaagtcttg ttcccatggc gagtggcaag 480

ctttatgcgg gtacaaacat gtcacttctc ctacaaaacg aaaggctccc ttgctcc 537

<210> 6278  
 <211> 594  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220078g01a1

<400> 6278

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 ttttttagggg gctttaaccc ttgggggggac atgactatcc tcattgagca atctgatcac 180  
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 ggtggatttc tgataccaca gaccaactca tttgggcaca tgtttagggc ttataatgat 300  
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 tcagttgatt tcgtgaagaa aatgagagag gagtatgcaa aattgaacag ggtagagatg 420  
 agcatatggg aatgttgatga actccttaat gaagtgggtg atgagagtga ccctgacttg 480  
 gatgaacctc aaattgagca cttgctccag acagctgaag ctataaagag ggactaccca 540  
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<210> 6279  
 <211> 581  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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<400> 6279

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 ttnttctccg tctgggtgcc cttttctccc taggggtgtc ctctactgaa tccctataga 180  
 gagaaaatca taaaccctaa ttcccctgtc aagctcgtag cacagtcaca gccatgtatg 240  
 gcggtgatga agtatcagct atagtaattg acttgggttc acacacttgt aaagctgggt 300  
 atgccggtga agatgtctcc aaggctgtgt ttccctctgt tgttggagca attgatcaaa 360



tggatgttga tgaagcagat aatggtgaaa agaaccctgg ctctgctccg gaatcaaata 420  
 ataataatgt tagaaatgct gattctgaca aggccaaggg aaagaggaaa ttgtatgtaa 480  
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<210> 6280  
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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 tccatttctt ccttctgggt caatatccct tttgggagct gttgcttagc agcatctcaa 180  
 gctcccacca ccaaatacaca cccctatatc ctteccatta agaaagaccc cgcaacaaat 240  
 ttgtactaca cttcagttgg cattggaact cctaggcaca actttgattt agtcattgat 300  
 ctttctggtg aaaacttatg gtacgattgt gacactcatt acaactcatc atcctacaga 360  
 cctatagctt gtgggtcaaa gcaatgcccc gaaattggat gtgttggttg caatggcccc 420  
 ttcaaaccag gttgcacaaa caatacatgc cctgctaag taatcaacca attagccaaa 480  
 ttcatttaca gtgggtggtt acgtgaggat ttcatttca ttcgtcaaaa caaagtgtct 540  
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<210> 6281  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220078g04a1

<400> 6281  
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 cttgagctga attactactc taaaagctgc ccaaagctg aagagatcat caaggaacaa 180

gtcacacaac tatataacaa gcatggaaac actgccgttt cgtgggtcag aaatctcttc 240  
cacgattgcg tggttaagtc atgcgatgca tcattactgt tagcgacggt gagcgatgta 300  
gtgtcggagc agacatcgga tagaagtttt gggatgagaa acttcaagta cgtaaact 360  
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ctttctg 427

<210> 6282  
<211> 541  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220078g05a1

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tgaaaagggc ttcctttaat aagaatccat ctgaggatgc tgatttcttg cccttggaag 180  
gtggccctgc tcgtaagctc gccggccagc agaagccgcc gccgccgccg gagaacaccg 240  
ccacggtttt gtacgtcggc cggatccac atgggttcta tgagaaggag atggaagggt 300  
attttgggca atttggaacc attaagaggc tgagaatcgc aagaaatata aagtctggaa 360  
aatcaagaca ttttgggttc atagaatttg aatctcctga ggtagcaaaa attgtggctg 420  
atactatgca taattatctc ctttttgaac accttctcca agtttatgtg atacctccag 480  
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<210> 6283  
<211> 537  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220078g06a1

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taaaacccca actatcctct cgtctctgcc ctcacctgca gaacagaacg cagtgtctca 180  
 tttgtctccg catcggcgtg gcaacaacac cgccgagaag ataacctctt caatcggaag 240  
 atgaacgctg ataacgggtc cagagacacc aaactcgaca accaacacgt ttgtctcttt 300  
 ccactttttt ctctgttctc tctcttagga aacgaaatat actgtaaatt gaaattcgat 360  
 tccactatth aacggggaag ttcagttcgc cgctagattg cgttggtgac ttcacgcgac 420  
 taggtcatat taggctcgta ggatagtga attgttcttc tataaaggat taacctaac 480  
 tatgttattt aatatgatga gattattcta tgctcattct ttggttttgt tcgattt 537

<210> 6284  
 <211> 529  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078g07a1  
 <400> 6284

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 gcatggatat tctatgcaaa gctgcactga acaagggaat gagtaactat gtatgtgtcg 180  
 tgtaccgtca tgtttttgcc tttgttgtca tggccctttt tgcactgac ttggagaaca 240  
 atgtagggcc gaagatgaca ttttcaatct tcatgaagac aatgattctc agcttgctag 300  
 agcctgggat tgacaaaaat ttgtattgtg cgggcatgaa gtacaccaca gcaacctttg 360  
 ctgtcttcat gtacaatgta ctccctgcc ttacctttgt catggcttgg attcttaggc 420  
 ttgagaaggc taaactaaaa agtatacgca gtcaagcaaa ggtggtaggg acttttaggc 480  
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<210> 6285  
 <211> 545  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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 <400> 6285

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taatgggttt gcagatatct gctggagttg gaccttattt caatgacttc atcttgtcct 180
gccatcccac cacgttgatc ccatgcggaa ggttggttca ttgaaagggg agaatgcatt 240
atcaagtgtt tcacaaagat aaactttcac ctttatgcta aatgagagag cagtgccttt 300
tttgatccc agtgtggatc taagtatgac tggattgagg gaatggaaaa ttaggaagga 360
gatggacctt ttcatttcca actggttgct ctttaaggca gaagcatcca ccaggagatt 420
gccatggtga acagttgtca gtcactctggc acaaagttgt cgggccacgt tgcttgtact 480
catttgatcc tatcaagagc tcatgttctt gcttacanna atgtaatcag gagctcatgc 540
tcatg 545

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<210> 6286
<211> 325
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220078g09a1

<400> 6286

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cgagtgtgta cagagatgag tgtctataaa cgaggagagg ctatgcttga tatcatatgg 180
tggatggctc aacgattttg gtgggggggca gaaataggag agaattaatt gcatccatcg 240
tggtttgctt tgttaagtaa atcttggtat ataaaaaaat aagtgctatg tgataaggag 300
tccagaccct aaataaatcc aatgt 325

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<210> 6287
<211> 581
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220078g10a1

<400> 6287

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 ctttttcttc aaatcaacaa acaaacaaaa ccatcccat ttcatttcag aagaaaccct 180  
 tttctttccc aagcacaact gtttcttct acggtggaac attgaccatt tgaaatagtt 240  
 gtgcaacagc ttccattatt tggaaaaaaa aaaaagggtc ttttgattct ttgaagcgag 300  
 aagatgcaga ggcctccacc agaagatttt ctggtgaagg agaccaaacc ccaccttgga 360  
 gggggaaaag tctctggcga caagctcact agcacttatg acctagtcga gcaaattgcag 420  
 tatctctatg tgagggttgt gaaagctaag gacttacctg caaaggatgt cactggcagt 480  
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<210> 6288  
 <211> 499  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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 <400> 6288

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 tgttttcagc atttgaatcg tggcttggtg ccgagcactt caagaggggc tctgatcaac 180  
 aatggctatc attaacattc tcaaaggcta tatttcttgg aaatggtctt gttgctattt 240  
 tgtctgggct gtttggaaat gtacttggtg atacattggc tcttggacct gtggccccct 300  
 ttgatgctgc ttcattgttt cttgctattg gtatggccat catactatct tcatggtcag 360  
 agaatttcgg ggatccttca gagaacaagg acttgcttac ccaatttang ggtgctgctg 420  
 tggccattgc ttctgatgaa aagatagcct tgctgggtgc catacagtct ctctttgaag 480  
 gttcaatgta cacctttgt 499

<210> 6289  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220078g12a1

<400> 6289

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 caaggctcag gtaggattgt tttgtggaca agaggttgag aatatctcaa gctatgctcc 180  
 ttgagaacat cccctagtt ctatgtttaa gggagttgcc cgatatgggt ccccccatg 240  
 gcgagatgat gacaaagatg gccattacat gttcgagctt ggagataatt taacttctcg 300  
 ctataagatc catagtaaaa tgggcgaagg aacttttggg caggtcttgg agtgctggga 360  
 cagagaaagg aaggaaatgg ttgccataaa aattgtccgt gggataaaga agtatcgaga 420  
 ggcagccatg atagaaattg aggtattgca acagcttggg aaacacgata aaggtagcaa 480  
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<210> 6290

<211> 567

<212> DNA

<213> Glycine max

<223> unsure at all n locations

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<400> 6290

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 agatgggtacc aattcattaa acatggctaa tagacgaatg agagctaact ttgagttcat 180  
 aagcaaactc ggtgttgact tttggtgttt ccacgacagg gatatagccc ctgatggaaa 240  
 aactcttgag gaatctaata caaacttgga tgaagtgggt gcccttgctc aagagctcca 300  
 gactaaggct aaaaaaagag tggttatggg aacagctcag ttgttcatgc atcctcgtta 360  
 catgcatggt gctgctacta gctctgaatt aaaggtctat gcatatgctg ctgctcangt 420  
 gaagaaagcc atagaggtga cacattattc tgggggagaa aattatgttt tctgggggtg 480  
 tcgtgaaggt tatcaatctc ttttgaacac agatttggag cgagagcttt atcatttggc 540  
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<210> 6291  
 <211> 591  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220078h02a1

<400> 6291

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ttttcattgg atttaggggc cttttgaaac cggggggtca agcttacaac ctttttcttc  180
tcataattcg cctcaagatt caccgcaggt ccctgcattt tcgaatttta tgccctttcc  240
gggtgggtat tatcaaatga ttcctgggtat gtaccctgcg ctagttccag ggttgactct  300
gccgcaacat gaggagaatg ggaaccgcgg agctggcata tatgctgttc ctgttaaccc  360
gtatgacaga caaattactg gacttacata caacactctg attccgctga cttaccacac  420
accagtagc aggccaagtt ctgaagctgc tgctgccagt gaaaatcagg ggcaagcagg  480
acagctacct caacagcagc agcctgcacc ttaaagacaa gttgttggtta ggagatttca  540
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<210> 6292  
 <211> 593  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220078h03a1

<400> 6292

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tctttcttct ggggtatttg tttttccttc tgctgttgct tctagcacac tttcatttgg  180
gcataagcca acttgagctg aattactact ctaaaagctg cccaaaagct gaagagatca  240
tcaaggaaca agtcacacaa ctatataaca agcatggaaa cactgccgtt tcgtgggtca  300
gaaatctctt ccacgattgc gtgggttaagt catgcgatgc atcattactg ttagcgacgg  360
tgagcgatgt agtgtcggag cagacatcgg atagaagttt tgggatgaga aacttcaagt  420

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acgttaacac tatcaaagca gcggttgaga aagaatgccc cttcacagtg tcatgcgctg 480  
acattgttgc tctttctgcc agagatgccca ttgctttgtt gggaggacca agcattgaaa 540  
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<210> 6293  
<211> 606  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220078h04a1  
<400> 6293

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caatctcttt tcctatctct cagggaccca tatccaacat ggcaatactc ttacttctct 180  
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aaaacagaag tatttctgtg attgattctc tgcaaccgaa tcatcatcag ccacttcttc 360  
tcccagtttc agctctccc tctctcttct tttcctcggc tctgggttcag taaggcgtat 420  
ggggttgcta ttattcttca taatggttgc aacagctgct acggcgctgt ttctccctgt 480  
gccttcgccg gacgctggaa aagggaaacc caacggtggt ggtggctgca gcgtttctgt 540  
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cgcac 606

<210> 6294  
<211> 463  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220078h05a1  
<400> 6294

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aagctggaaa tcgatgacga cctgaagctt caggcatttt gggacaagag gatcttccag 180  
 gaggtccttg gtgacgccct gggtgaggag tttaaaggat atgttttcaa aatcactgg 240  
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 ctcttgctcc atagatgaac tccttgtttc cgtggatatt gaaggcgcaa tgtagagcgt 360  
 aaaatgaaat ctgttcgtgg gtgcattgcc agcccagacc tctttgtttt gaacttgga 420  
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<210> 6295  
 <211> 508  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078h06a1  
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 ccaccatcat ggtttcactt ggagctacct gtgctctgtg ctgttctatg ttcattggtgt 180  
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 atgctaacca tactagagtt gcgatagcgg accctcctga ttgttgtagc aagcctaaga 420  
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<210> 6296  
 <211> 470  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078h07a1  
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acgacaacga ctaggaagtt ggcgcaaac gacaagacct taaccgctcg tgtggcggggt 180  
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 aagagatctc tcgcaatgct gctgtaattg cagagactgc atcaaagagc attgcggagt 300  
 tgcaaaacga agatgaagat tcagaaaaag agtgtgaagg agatgaagga tctgcagctg 360  
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<210> 6297  
 <211> 555  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078h08a1  
 <400> 6297

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 gctcttcgga aaggcgctt cctagaagaa ggagaagggtg aaggccttga ccgaggtgaa 480  
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<210> 6298  
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 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220078h09a1  
 <400> 6298

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 tctacttttc catttttttg gggagagaga tctgattctt caccataagt gtcattgctt 240  
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 tcaatcccat acaaaaagca accccaattc acttattcac cccattgtcc taaaacttca 360  
 ctcttttctc tgctaagaga aaagaaaata aaaaaccaa atggttgaat ctgagcccaa 420  
 gttcttcac cccgactcga tcaatggagt gaatttcgac gtggcggcgc agattaagat 480  
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<210> 6299  
 <211> 315  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220078h10a1  
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 ttaccaggc gcagccgccc caccagggtc tggcgcgatgg cctaagagtt gcacttcaac 240  
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<210> 6300  
 <211> 438  
 <212> DNA  
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 <223> Clone ID: jC-gmfl02220078h11a1  
 <400> 6300

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aggaaataaa ataatatggc attcagcggg acccaacaga aatgcaaggc ttgcgacaaa 180  
 actgttcact tggcgaagg tttatctgtc gatggggctg cttatcacia gaattgcttc 240  
 agatgcagcc attgcaatgg ccttcttgcg ataagcaact actcatccac cgaaggggtt 300  
 ttgtactgca aggtgcactc tgagcagctc ttcaaggaaa ctggcgccta cccaagaaa 360  
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<210> 6301  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220078h12a1  
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 actgtcacag gaatatggtg gttcatagag acctgaagcc tgagaattta ctcttgact 120  
 caaaatttaa catcaagatt gctgattttg gggtgagcaa catcatgctg gatggtcact 180  
 ttcttaagac aagttgtgga agccctaatt atgcggctcc agaggttatc tctggaaaat 240  
 tgtatgctgg accacaagta tatgtctgga gctgtgggtg aattttatat gctgttctct 300  
 gtggcactct tccttttgat gatgaaaaca ttcccaatct cttcaaaaaa ataaaggtg 360  
 ggatatacac tcttgctagt catctatcac ctgggtctag agatttgata ccaaggatgc 420  
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<210> 6302  
 <211> 184  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079a01a1  
 <400> 6302

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 ggtgtatgat tgcttttcta tttattgtgg catttttctg ttgcaccctg ttgttgtgtt 120  
 tgcaataagt attagttata acagcagcaa tattcaaatt tcaaaactaa ataccgtggt 180

gagt

184

<210> 6303  
<211> 159  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220079a01d1

<400> 6303

gaaattgaat ttgctgcttt attactaata cttattgcaa acacaacaac aggggtacaac 60  
acaaaaatgc cacaataaat agaaaagcaa tcatacacca tcatattaat ctatgaacaa 120  
ataaattaaa gagatcacta aaactgggact gtacttttc 159

<210> 6304  
<211> 535  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220079a02a1

<400> 6304

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ttattcaata ttttggttgg gttgaatccc ggggttgaag cggtgcagac atcacggcta 120  
ttctaagagt gtctcgctcc ctcatctatg tccgatctgt tcgacggagg acgggtcggt 180  
gcgtaactgc cgtaaacctc tcggcgacag gcgggcgtgg tgctttgcct tctgaaggcg 240  
gtagcccttc agacttgctc ttctcgctg gtggtggttt cttctagtat cttcactctt 300  
ttcattactt ttagcctgca tagtttttaa taagaaaaaa aaaactgcga ctttgtgact 360  
agttaagatc accgtttatt cttctctctc ttcttcgtct tcttgacta ctactactac 420  
tacttttcct ccacaaaatg atgctcagaa tcaagagggt tccactgtc gtttccaact 480  
acaaaaaaga cgacgctgca gactctctc gtgccgtcgg aggctgtggt cgaa 535

<210> 6305  
<211> 541  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220079a02d1

<400> 6305

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 ccaaaacacc aacaacagta ctcaggtgag cagttattac atcgtacttt cacatgaacg 120  
 cgtcataaag gcagataaaa gcaaatacat acaacacagg accttaaggc tcaagcacag 180  
 cacaatacta tgtgacttaa acggtgacac aattcagcaa ttattcttaa agcactacg 240  
 atttgctgaa tttgttcata attttagagc cttgttagtg tagaatcaca cattcttgtg 300  
 aaccagctac caccacagta ggggtgtcgc ttgtgctgac tgcatacaact tctttgacac 360  
 tttcaacgtt gacatcctcc aattcaccac agccaatggc ttcaaaataa gatcattgac 420  
 ttcttgaaac ctctcttgag agagggacac ctctgcaaga agcctccaag cattgccttc 480  
 agatgcctca tcataatcct tcttctctt taagaccatg tgcccactaa tttcccacac 540  
 a 541

<210> 6306

<211> 533

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079a03a1

<400> 6306

gccaaagatc ttgtgcagca atggaatddd accacaacct actgaagatc aggttggtga 60  
 atgagaaaga catctgtgtt tatcagcgcg ccgattgggt ggttgacaag ttgggtacaa 120  
 aagtcattc ttatttctgg cttgatgagt actcagaaaa agatgatttt gcgcgatact 180  
 ggaaaaatga atggatgagt ggtttgacgt catggcgcaa agcactgaag attccagata 240  
 ctgatgtcat aatggaagat ggatgtgcta aggtcactga tcaagataaa gcttttgttg 300  
 tctggaatac tggttcaatg ttgagcattt gtaattgtag ttgggcacaa gatggcaacc 360  
 tttgtgagca tattctgaaa gttcttagta tctgccgaaa gaggggggtcc attttaccat 420  
 ctgtcacttt atttcaggat caccaggcac taaataacat gctgcattgc cctccttttg 480  
 attcctttat tcgtgatcac gctgtgtcat tggcagtttc agctcagaag cag 533

<210> 6307

<211> 527

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079a03d1

<400> 6307

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 atctttacaa agagttttatc aaaattaaac tctatcttta atggcattgg tctctaattg 120  
 tctgtgtac tgattcacga ttttaatttca ggtatttgat cccaaataga catcctcctt 180  
 gatggtacct gaattttcac ccgtatcaac tgcaagtggc tcggcagggtg taactgttga 240  
 cggggggctc aagtggctat cagcatcttt agtgcaagaa atgactctgg gaacctcatt 300  
 gacaccattt tgatgtattt cacaatgctt cacatcctct gttgttgatg aaggggtatc 360  
 cacatccata gcacaatctc tgccaccttt atctgaaata ttttcttcaa tcttatcatt 420  
 aggcaaagca ccattttcag aagcggagat ctngtttct atagtagcca agcccctctc 480  
 tttngtttct tggaatgcat cacctgaaac ggtatcatca acaggggt 527

<210> 6308  
 <211> 183  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079a04d1

<400> 6308

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 acaagcgttt tcgcaataat taacatctcc tcatccgtga taattaacag cattgtttat 120  
 cttaattaat tttctcgtca tttagagagc gagcatcacg agggaagcga tggcggaagc 180  
 agc 183

<210> 6309  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079a05a1

<400> 6309

caacctcaca attogaagtt caaaccccaa atcttcaaaa acctcacacc aaacccaaaa 60  
 taaaaaaaca acgtaaaaac cttaataata gcaaaaaccaa aaccacactt gcagtcaaatt 120  
 gttcttcctc tcttccccct tctcttcatg cttcagagct tcacaacgta ccaaccacga 180  
 tcccacaaac ctcaccacct acatctacca caccgaatac ggcaccgttt cactgacatg 240  
 gtcgcgctcc ctgctaggcc gctccctcca cgtgaacctc cacaaccggt cctccttcca 300  
 ccttctcctc aagccatgga agaaaaacgg gtccaagaag ctttctcaca atacggtctt 360  
 cctctggaac ctctccatcc gtaggttcga gtctggactc gaacctcgct ctagattcta 420  
 cctcgccatc gaggtagaac atggcctcag cctactcatt ggggacttat ccccaggagt 480  
 agtaaggcca 490

<210> 6310  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220079a05d1  
  
 <400> 6310

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 tcttttgact tctctcgaca aacaggcttc catacatgca aatattcaag cattacaaga 120  
 acttgaattc aattgggtttt gggtaaatta aactatcttt tgccctaatt aaagactaaa 180  
 ctcttagagt attaagaaca tatacttttc tatacacatg gaaatctaaa ttcattcttt 240  
 ctccccctaa acttttactc taaaggaaaa caaataaaca aaaaatttaa ccacccaaat 300  
 tatgtgttca ctttctccaa gcataaacca ccaaagaaaa cccaagagga accaccaact 360  
 cattctcctc cacactggac cattccataa ccgaagaact tcccccaaag atccaccaga 420  
 agtagaagac accgacaaag acgaagaag 449

<210> 6311  
 <211> 541  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220079a06a1  
  
 <400> 6311



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gtatttgatg cttacaattc acttatcttg gttgcatggt aacagatttt tcagaattat 120  
gaggatattc tagtgaggaa ccagcactat ttataggaca aaggaaaact aaaggatgct 180  
cttgctgggc tgggttcgctg cttgtcactc ctggcatgga ataaagaaga aactgatttg 240  
cacaataagg tattttattt tcatttggct gtgaaaatta gtaaagactc ttttacatga 300  
atcatcaata caattgtaaa tgctctgtca gtctttttaa tctaagctct gctatatcta 360  
tgcatgacat atacctcttt gcattttcat tttagcaatc tctctctttt gtcatttcat 420  
ttccacttag ctttatgata aaattggctg atttatgcgc atctgaaact agcaacttgt 480  
tctcaagata catgtagtac tttattaatc tgcacaactc atagtttcac aatactattt 540  
c 541

<210> 6312  
<211> 441  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220079a06d1  
<400> 6312

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gcaaaaccat catggaagaa gttatctata ggtcaaaggg attcatgggt taatatattt 120  
gaagaaatca aattacaatg tttgattaaa aatattcaat tttttatatt atttttaaaa 180  
atgtgtgtaa tgtaataatt tttttcccat tttggtcaaa accaacgtag tcaaagttta 240  
catggccacc tcagtataag gacatggtgc ggcacaactt tgagaaaagg ggttcagcta 300  
aaatgactca attaatgcaa gatgttcgaa aaaatttaaa tgaaaaacca acttggatgg 360  
aagatgatgt gtgggcacaa ttgaaggcac attgggaaat ctcaagtttc aaaaataaat 420  
ctgaaataaa taaaagaaat c 441

<210> 6313  
<211> 412  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220079a07a1

<400> 6313

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 aaagaaaaga taagactaat taacgttttt ttggtttggt tttcttcaac acgcaggaga 120  
 cacgaagtaa agagacaagt tacatcagat gggttaaaact tggttaaaaga gtttgtgtat 180  
 gtgtgtgaaa gtagtttaag gctgtggggg tggttgaaga agtttttttag ctttggagat 240  
 agagatgtca ggtggtggag gcagcatagt gaggttcaga agagatctga ggatagaaga 300  
 caatccaaca ctgacagcaa gagtgagagc tgttgctgag gtcgcagttc tcgtattggc 360  
 acctgaagaa aaaggccaat actaccctgg cagggtctct agatggtggc tc 412

<210> 6314

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220079a07d1

<400> 6314

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 aacatttttaa atctgagttt attagtagac caaagatcct atggtggctc tntctccctc 120  
 actacacaaa ctatactata cagcaagttg caaatattgt acaagaaagc agaagggact 180  
 gcagatgaac tgccgtatga attgaaattt ccatacacat tggaggtcag gtggtggtaa 240  
 aggagaagga aattaacaca tgtatgttca atgcggcttt aacacctcac tttctctcaa 300  
 cagaaaagtg gtagtgtaat ttccacctcc ttgcttctag tctaattgct ttagatatga 360  
 attaccagct ctgaggtagc tgctccaat tcagcatttg gtgagactga ggatgccttt 420  
 gcaagaaaga tgaactgttt gttataccat ttt 453

<210> 6315

<211> 525

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079a08a1

<400> 6315

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tcgctcttcc cttcctggtg gcgacaatgt cgactcctgc taggaagagg ctgatgagag 120  
 acttcaagag gctgcaacaa gacccgcctg cagggatcag cggtgcccc caggataaca 180  
 acataatgct gcggaatgct gtcataattg gtcctgatga tactccatgg gatggaggca 240  
 cgttcaagtt gactctccag ttactgagg attatccaaa taaaccacca actgtgcat 300  
 ttgtgtctcg catgtttcat ccaaataatt atgctgatgg aagtatttgc ttggatatac 360  
 tacaaaatca gcggagtcc atatatgatg cggctgctat actcacatct atccagtcac 420  
 tgctttgtga tccaaccca aattctcctg cgaactctga agcagctcga atgtttaacg 480  
 agaacaagcg tgaatacaat cgaagagtga gggaaatcgt ggagc 525

<210> 6316  
 <211> 482  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079a08d1  
 <400> 6316

cagcaacta caacttcttt gttgaatggt tgacaacaat ccaaagtaaa ttgacacgca 60  
 taattctatt ttacattaac tgacatatgc aatgcaaaag ctacaataaa ttaaagataa 120  
 gatgatgcta tcattcatat cagaagagaa tatatatattg atgagtttgc acaatcattc 180  
 ttatatatag gtgccaccac tgcaacctaa ttcatgccct caaagcttcc tgcatataag 240  
 gatgaactta gtcggctgtc caactctgct ccacgatttc cctcactctt cgattgtatt 300  
 cacgcttggt ctcgctaaac attcgagctg cttcagagtt tgcaggagaa tttgggttgg 360  
 gatcaciaag caatgactgg atagatgtga gtatagcagc cacatcatat ataggactcc 420  
 actgattttg tagtatatcc aaacaaatac ttccatcagc ataaatattt ggatgaaaca 480  
 tg 482

<210> 6317  
 <211> 223  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079a09d1  
 <400> 6317

ccattagcgt cccttctatg gtcattggtct tattcattgg aaatcagccg ccattcattc 60  
 atttttcaca gtggcagtgc caatgtgaaa catcctgcgt gaacaaacag aatgcataag 120  
 ctgcacaact tgctaaatct aatgggtgac gtgtatagaa cctaacaagt atacataaag 180  
 aactagcttt ggataagatt catttagaca agataagacc att 223

<210> 6318  
 <211> 611  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079a10a1

<400> 6318  
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 ggattgctgg tgtgggtgtt ttgtttgggg tgtttgtttt tgttggttatt ttatttttga 120  
 gntgattctg gtcttgtcaa gttgggtggga attaggagct gcttaattca aagaatgggg 180  
 ggagatgcac agaagagaaa cgtcatcatt ggcgtctcta ctttcttggt ggtggccatg 240  
 gtggttagcag tcacagtcaa tgtcaacttc aataacaagg gatcaagcag tgattcaaag 300  
 gaagaaagca aatcccatgt agcttcctcg atgaaggccg tgaaaaccct ttgtgcaccc 360  
 accgattaca agaaggaatg cgaggacaat cttattgaac atgccagtaa catcaccgac 420  
 ccacgggaac tcatcaaaat cgcattccac gtgaccatct ccaaaatcgg cgaaggactt 480  
 gagaagacac aactcatgca tgaggctgag aatgacccta taaccaagga ggactcgcac 540  
 acgtgcaagc aactcatgaa cctcttcatt cgngagtcca cgaggtcact cgacaagttc 600  
 gccaaagtttg a 611

<210> 6319  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079a10d1

<400> 6319

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aagacaaagg tggtagacga caatcattaa taattagttg ttttaatttg caacacgcag 120  
gcacatgcgt tctctcctaa aaaataatga atcaacttca gttagtgtgg gagacctggc 180  
cagagtagta aggaatccta gtgaccctaa tccagtcac tccatggaaa aacatggatg 240  
gcaagaagtt tggtattcca tctgaatcaa gggctttaac tccttccac ttcacacgct 300  
tggttttgtc tgaaccaggg ccacgggtgt tgaactcagc gtagaaacaa gtatccattc 360  
cactaaaac 369

<210> 6320  
<211> 634  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220079a11a1  
<400> 6320

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nnngggccgg gggngggggg ngtaacaggg tagngagggt tcgncgnaaa catgtttagc 120  
atcgtcaagg agatcctggc gagcccgggc aaatggcgga ccaggtttcg aagcttgcgg 180  
aagaggccca gaatttccga caggaatgtc tggagctgaa atccaaaact gagaagctgg 240  
cgggectcct ccgccaggcc gccaggaata gcaacgacct ctacgagcgt cccacgcgcc 300  
gcatcatcga cgacaccgaa caagtccctg acaaggccct cgttctcgtc accaaatgtc 360  
gcgccaacag cctcatcaag aagctcttca ccatcatccc cgccacagcc ttccgcaaga 420  
cctccatgca gctcgagaat tccgtcgggt acgtccaatg gctcctcgc gtctctgcct 480  
ccgccgacga gcgcgacgac gagtacctcg gcctacctcc catcgccgnc aacgagccca 540  
tcctctgcct catctgggaa caggtcgcca ttcttctctc cggcgctttc ctcgctctccc 600  
tcgctcgcga caacgaccgt tacgggaaac tcat 634

<210> 6321  
<211> 374  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220079a11d1  
<400> 6321

aaaaaaaaa ataatagata agcatatatt tctactagta attgatagtg caaaagaaga 60  
 cgagcctaaa ttaatttgac aagggcgaca acccaagatt gctaattttg atgggtatata 120  
 cagtagtgat gcagggcgaa agaataaaaag aaagaaaagg aagtggaagg ttacgttggtg 180  
 gaggtaggta tgtaagtatg tatgtatgta aataaattca gcggaatcct ctctctcttg 240  
 attgatagag ttcgagcctg ctcttggcct ctggtaagag tggttggatg gaggggttcc 300  
 tcgatgagat gtgcctgctt ggtgcacccat tcgagaacaa tgagcacctc ttcttgcgcc 360  
 agagtctcgc tttt 374

<210> 6322  
 <211> 599  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079a12a1  
 <400> 6322

caacgttcac ataccacgta gaaacagttc aatcattctt agccctaagc agacttcaca 60  
 tgctcatcca cttagtggca gtgttgctc tctgttacta ccgcatcacc cacttcttcc 120  
 tccaacctcc aacagcgcca tggtttctca tgactgctgc ggagcttctt ctctcgctgc 180  
 tctggttctt caaccaagcc ttccgggtggc gaccgggtgc gcggagcgtc atgactgaga 240  
 agcttccgag tgaggagaag ctgccggggc ttgacatctt cgtgtgcacg ctcgatccccg 300  
 agaaggagcc caccgtggag gtcattgaca ccatcatctc cgccgtgtcc atggattacc 360  
 cctccgacaa gctttccgtc tatctctccg acgacggcgg gtgcgacgtg actctctatg 420  
 ggatccgaga ggctgctgag ttcgccaaagg agtgggttcc gttctgtaaa aagtatggcg 480  
 tgaagtcaag gtgtcccaaa gtcttcttct ctccctctgg ggatgaggat cacgagactc 540  
 ttccggacga tcaattcaga acacagagag acctcgtcaa ggctaaatac gagaaaatg 599

<210> 6323  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079a12d1  
 <400> 6323

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 ttaccatggc ctcaagaagt ggataactaa gaaccattac ataggtaact aggaaaagtt 180  
 gaccaaacat ttcttcaaaa tctttcacat tgaaattaaa tagtctccat ataccaacta 240  
 agaagctaac aatgttgggt gtgagtaata gaaccaatgg agccatgaac acagctgcac 300  
 cttggaaatc gaatctacct tgctcatatt tcttgagctt ctctttgtaa tggctttgtt 360  
 tgacaagttg aatttcacct tgctcaaccc caaccacttc ttgattccat ct 412

<210> 6324  
 <211> 582  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079b01a1  
 <400> 6324

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 actccctttc ttcttcaact gattctcgac gtgagagaat ccggtttctt taatgatttc 180  
 gccctgtcgg ttggactcgc tatcggaccg gcaaattgatt cttgggattt gagtataccc 240  
 caacatctct gctgcctctc gctgttcgtg atgaggttct ttgtgtggga tgcccaaata 300  
 ccaaagatga aagggtgtcag agactgggtc ttctctcaaa tactatccaa atcgtctggtc 360  
 tcgccttcac cattatctgg cagcaatagt ctctatgctg gagagcatcg gaatgaaaat 420  
 taccacgagc aagggttcaga tcaactcagct aattcagtgt catcaccat accttccaac 480  
 tcacgaact cttcatatgg tgatcagagt aatcagcata gttgctcctt gcagctagct 540  
 tcagatacag aaatctatca gtatcaacat aacactaatg ga 582

<210> 6325  
 <211> 478  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079b01d1  
 <400> 6325

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aaggaagaag agaaaaaaaa ttgttttttc ttaattaaga cagtgaagag tgagaggttt 120  
actctctaaa ttatacattt taatttatac tatatataat taaatgttat agattttttgc 180  
aatgtgcaaa ataataataa aaaaaacgat ttcctcttat acaacgatta acaaacatac 240  
tatagaacgt gcaacatgtt ccttgctgaa aagataagtt tgggcagaaa atacaacctt 300  
ttctttcttca ccaaccgaca tgttgcccac agtcgtgtca cctgaaccaa aaaaaccatt 360  
gaaattccca tttgatgata ggcaccgcac aatataaatg caaagccaga gtttgaacat 420  
caatgcaagc cttaaaactta aacaagatga tttgtggcta cttgcattat cactaaca 478

<210> 6326  
<211> 532  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220079b02a1  
<400> 6326

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gtgccggatg cggaggacca ccacctgctc aacgcggagc accacttata cgccttcaag 120  
acaaagttcg gcaagacctt cgccacgcag gatgagcacg accaccggtt ccgtatcttc 180  
aagaacaact tgctccgcgc caagtcacac cagatattgg atccctccga cgtgcacggc 240  
gtcaccaggt tctccgatct cactccggcg gagtttcgcc gccagttgct cggcctgaag 300  
ccgctccgac ttaactctga cgctcagaag gctccgatcc taccgaccaa cgacctccct 360  
accgatttcg atcggcgcgga acatggagcc ggtactggag taaaaaatcc gggttcgtgc 420  
ggatcgagtt ggaccttcaa cggcgggtgga accgctgcag gtgctgattg gacttataca 480  
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<210> 6327  
<211> 399  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220079b02d1  
<400> 6327



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 ggtagaaaca tgttttagcag cgacagttga gaccatcgag tccaccccccac atacattggg 180  
 accttttgag atcttgggaat atccctttttt tccccagctt tccccccatg aattctttat 240  
 gatccagtaa gggttttcct taaaacgaat tggagcataa gcaccagaac catacccccac 300  
 caaaagaacc ccgtgatcca aatgcttgcc gcagatatat gggcatgaga cgccaccaat 360  
 atatgtctgc ataaaaactg cattgatacc aactgcaag 399

<210> 6328  
 <211> 488  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079b03a1  
 <400> 6328

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 gctgggcctg cttctgagga tgttcaactcc ttatgctgtg ctcatcgct gcgcacacct 120  
 ttatggctcc tctgactaac tttgcagtct gctccactac acactccaca tcatagctcg 180  
 tctgcattcc ctttcccttc tcttttcacc ccaccttccct gatcctctct tcttctttat 240  
 tctttttctg ccggcagcac ctaattcggt ttccgacttca taattctact acttcttcac 300  
 tcataaaagc agattgaacg acactgaaca aaacggctct tactgcacga cgaggacctc. 360  
 catcttttagc agaataacca cagcctcatt caccactggc tcaaattcca tatctgtcct 420  
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<210> 6329  
 <211> 525  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079b03d1  
 <400> 6329

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 actatcatatc aaaacatata agaatgagat aagatataaa ctatagattg aacgagtatg 180  
 aaacaagggt gtacaaaaag attaagctgc cattgtttca tctaagtaaa catcacttca 240  
 tcaaatgcag cagatgatac aaattgcaac ttgacaaagc gacccttatg cacaaatgta 300  
 aatgaaaata atgcagcgga cttacaggat atggcacttg aaggaaccaa aaagggaaaa 360  
 agtaagaaaa cttttatagt taaaaaataa gtcataaata aatccattct tttcttttct 420  
 ttntttcttc ttaatttact actgtgccaa ggtcaccttg gaccagataa ctctactgca 480  
 tgcagatttt cggttgagtc gacgatccaa tcagaattag gatga 525

<210> 6330  
 <211> 459  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079b04d1  
 <400> 6330

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 aacaagaagt tcaatttcat ccatttactc ccaaagaaaa tacctcactc gttttataaa 120  
 gcaaatgttg aacccaggag accacatccc cactccctcc cctctttctc tatcaaaatg 180  
 taaaactaaa acacaaataa aaaacttcaa tgattgaaga tttttattac aatcttttca 240  
 aacttttctt tctggcatct atcttcttct tgtccgcctg agcttttget tgtccacctt 300  
 ccttcttctg gtggtgcaga agcagcagat atgactgtag cagcagaaga accattaaca 360  
 gccgctgect gttcctgatt atttctctt ggttggtgtg gttgcaagca ctggcactgg 420  
 caatgcagca ctgccggtgt ggttttgatg tcaccacta 459

<210> 6331  
 <211> 488  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079b05a1  
 <400> 6331

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 ctcagacatt tccgttgcag tcatggtgca agaaaatggc aagaggaaga aaccaaacat 120  
 tctggtgact ggcacaccgg ggacaggaaa gacaactgcg tgcaactgctc tagctgaagc 180  
 caccagctc tgccacatca atgtcggaga attagtcaaa gaaaagaact tgcgatgatgg 240  
 atgggatgat gagcttgatt gttaccttct taatgaagac ttggttttgtg atgaacttga 300  
 ggatgttatg gaagaggggg gaaacattgt ggactacat ggctgcgatt tctttcctga 360  
 gcgttggttt gattgctggt ttgtacttca aactgataac accattttgt atgaccgttt 420  
 gagtaggacg ggtacaaaag attcaaagct ttcgaacaat attgaatgag aaatcttcca 480  
 agttctgc 488

<210> 6332  
 <211> 494  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079b05d1  
 <400> 6332

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 ttcaaccaca ctgcagatct gcttcaggta gcagttcatc gtgatacttt caccatactc 180  
 aagcagaaag gtatatacaa agtactcatt tttttgttaa gaatgtgagg gtaaagacca 240  
 atttctgacc caatctgtaa gagttgccac atttctacta acgtcttcta tattatcact 300  
 cttcattgca atcactttct cctccgagta actttcttta gcctcctcaa gcagaacttg 360  
 gaagatttca cattcaatat tgttcgaaag ctttgaatct ttgtaccccc tctactcaa 420  
 acggtcatcc aaatggtggt atcagtttga agtacaacca cgcaatcaaa ccaacgtca 480  
 ggaaagaaat caca 494

<210> 6333  
 <211> 522  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079b06a1

<400> 6333

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 cctcgtagaa gaagggaatt actggaaggc atttcaagtc ctatctgagt attagcaact 120  
 ctcggatcgt acgtcagagc tttcagcaat acaagaaatg agtcgaggcg taggaggtct 180  
 ggctgggaag aactttacag aagctggatg ctctcttatt gggagtatgc caagaatctc 240  
 aaggaagacg gctatataac agtaatagat gcatatgcat taatagggga tactgccggt 300  
 cttgctgaaa agatacagat gcttcttcat gcaagacgtt atatcagaaa cacactctgt 360  
 cttaaaggct attgagcatg aggatganga gggactttca caaaatatgg ggctcactta 420  
 cagggattta tgcctacgaa tacctgattt aaagttcagg caatgcttat ttcgaacatt 480  
 ggctggccta tttgacctta cgtgtgcatt ccatgaaatt at 522

<210> 6334

<211> 502

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220079b06d1

<400> 6334

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 tactccataa ttaatagagg atcaaacgcc aagcaatata cactaccttt acacggagcc 180  
 ctgccaaaaa agtcaaaggc gaaaaggagc agaagattct atatgcctga cttgatacac 240  
 aacaaatgac agttactcat tcaatttttt ccagtatgtc caacctgggt ttcctcttcc 300  
 aacctttcat agtggcaaca aggttgacca gtccaacaat ctggctttta ctgtattccg 360  
 ggtgtgctcg tgcccagtcg acatattctg tctcggaag gtagtaagcc ttgatgaaag 420  
 tttcaaccat ttgtagcttg ggcttcacat tcagcgccac aaaatgctgt aaccattga 480  
 tcaaaacctg cagatcta at ga 502

<210> 6335

<211> 514

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079b07a1

<400> 6335

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gcaccacgaa gcctcaaaac tctctcccca tcccacatct ccatgcatat tagatcgatg 120  
aaggtgaagt acctaacata aaagagcctt ggtaacagaa aaaacacatc atgagctcct 180  
gaaccacctt catcgaccag gatcataagt ttaaaacatg gagatgcagc ggatgagggg 240  
gttgctgtta ctgtggatcat catttgaaag cgagggaatg tcccttggtg gtggaaatca 300  
cactgccgcc aggttttgca ctcgctaaaa caatattcca caaccccctt ttctctctct 360  
tttctctcta attatctctt cttttgtatt cctctctctt tcttcttcta catatatata 420  
acaactctct ttaaaatttc aacacttggg tcgtcatcat cgtcatcttc tttgcgtctc 480  
tttctctttt gaatacccta cacttggtt tgag 514

<210> 6336

<211> 556

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079b07d1

<400> 6336

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cttcaacatc tacgtgtcat agaataataa tgatcacacc ataatctgaa ctttgaccat 120  
aattcacccc tcattgaaca gtgaacacat tcctcaactg ttacaccatg gtggtcatta 180  
ttttcacaat caacaaattt cataaacatc cacaaagcag tcacatgaaa aatatgatta 240  
aactttttaa acacgccaca aaagaaaaga aaagaaatca aagggacaat agagaaaatt 300  
aaaactcctt ggctttttgc tcctcagggg ccacctccac tcttgaatct ctctaact 360  
cttcaccctc aactccatgt cttcttcac tacaccactc tctctgtgaa acacaaattc 420  
ttaaaccacc ctcttacatg tttctaccaa aataatcaat caatcaatgc aaggttttta 480  
aaaatgggtc accttcacga tttcgatcgc cacaccaag gtttttaggt caccacaatc 540  
atatcaattg aaatcg 556

<210> 6337  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220079b08a1

<400> 6337

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tttttttctt tattttctagt cgactttgggt ttgcacaaac aaggggatct tgacatatca  120
agatttggag gaaaaccgaa ttcagatata agccaggctt tcttaagtgc ctggactcaa  180
gcatgtgcat caacatctgc tgtcaaaatt gtgattccag ctggcacata tcaaattgggt  240
gcagttgatg taaaagggtcc ttgcaaggct cctattgagg ttcaagttga tggaacaatt  300
caagcaccta caaacgtagt taaccttaag ggggcagacc aatgggttaa ggttcaacat  360
gttaactctt tcacctgtc agggaaagga gtttttgatg gtcaagggtcc aactgcttgg  420
aaacaaaatg attgtacaac aaacaagaac tgcaagatgc tntgcatgaa ttt          473
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<210> 6338  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220079b08d1

<400> 6338

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atacaattac tagctagaca tctcctcttt taatggggat ggcttgctaa ctcaagaaag  120
gaaaaaacca taagaacatt gttaaaaaaa tgggcattat tgtagttgct cattctaggc  180
tgcacaagta ggagcttttc ctgttattac gggcttgacg ttagcacatt tagctgttgt  240
tgcagctcca ttgaatgtgg agatcaacat cagtcacctc tacacccttc acatggtgca  300
acactactac aaataaaaat cactccttct ttagttcctg aagtgcctt aatgggtttt  360
gaaggaaacc ttgcttatct tgatttttga cggattcttt ttggagcact gngttccatg  420
ggacatactc ttggtctatg atcacaggtt cgaaac          456
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<210> 6339  
 <211> 562  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079b10a1

<400> 6339

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aggtttggtt tataataaca ttgtgtgggt ttatattatt tgttagaatt tttttttcaa 120
tttgttgtat tttttttttt tattgggggtc tcttttttct cgggggtacct cttgtctccg 180
tcgtcttcgt cgatcctcta cctctccttc aaccaggacc aggctgctt cgccgacgtc 240
gccgacaacg gcttccgcat ctacaactgc gaccccttcc gcgagctctt ccggcgcgag 300
ttcgacggcg gcggtatcgg ccacgtggag atgctcttcc gctgcaacat cctcgccctc 360
gtcggcgggc gtcctaacct tcagtacctg cccaacacgg tcatgatctg ggacgaccac 420
cagggccgct gcatcggcga gctctcatte cgcgccgccg tgcgcggtgt tcgcctccgc 480
cgcgaccgca tcatcgtcgt cgctgaacag aagatcttgg tctacaactt cgcggaacctc 540
aagctcgagc cgcataactga ga 562
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<210> 6340  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079b10d1

<400> 6340

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agcaaagctc tcaatattta ttattaaaaa aattagaaaa ctatataatt acaaataatta 60
caatggaaga agcaacgagg tcgacctga gttagtaata ataataaaat gaggtcagtg 120
ttacttcagt atacatatct gcataacct actaagctga aatgtcaagc gctcaggatt 180
tcttcacatc gcgtctcaca aggctgtttc tggttctggc tttaaaaagt tatgatattc 240
cagctgagtc atctcccctc catgtactgg atcaaattgg catctataga agctgcataa 300
aacaaatcaa cagcaattca caacatcata taacacaagc gtccaccttt tgggatgcaa 360
aaaggccctc taaacaacaa gtataccaaa aaaaatcaag tcatagatat atggtaagat 420
```

atttgtcaaa agagccatga aaccaatgca cacacatg

458

<210> 6341  
<211> 595  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220079b11a1  
  
<400> 6341

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ggggtgtttt tatggattgg aggggggacc cattcacagg gggatacaga aacttcaatt 180  
cccaaacttc ttctccact ggccaatcac tggacgccac ggggcaggca aagatccgtt 240  
gggtgcaaaa gaattacatg atttacaatt attgcactga tatcagacgt ttccctcaag 300  
gccttctccc agaatgctcc attgcatgag aatatttaat tcaatgttgc atatcattat 360  
aaaatgatcc tcatgaacgt gacacacatg tgttgcctat tacgttaatt tactttcttg 420  
tgtaaattaa tgcaactaaa actgttatta ttgttggttt gtgctttgtt gagcactact 480  
ccattgtttg tggcgaaaga taattatagc gtgcaaaatt atattcatgg cagtgtatat 540  
gtgctgaaat tgtaaagtat tttcattaat aaaattggtg gagttttatt attcg 595

<210> 6342  
<211> 438  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220079b11d1  
  
<400> 6342

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cactgccatg aatataattt tgcacgctat aattatcttt cgccacaaac aatggagtag 120  
tgctcaācaa agcacaaacc aacaataata acagttag ttgcattaat ttacacaaga 180  
aagtaaatta acgtaatagg caacacatgt gtgtcacgtt catgaggatc attttataat 240  
gatatgcaac attgaattaa atattctcat gcaatggagc attctggagg aaggccttga 300  
gggaaacgtc tgatatcagt gcaataattg taaatcatgt aattcttttg cacccaacgg 360



atctttgcct gccccgtggc gtccagtgat tggccagtg aggaagaaag tttgggaatt 420  
gaagtttctg tatgaggc 438

<210> 6343  
<211> 582  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220079b12a1  
  
<400> 6343

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aaaattggga ttcggatgta tgggccttac tggagcgtac aatgaccctc tccaagaaca 120  
ggatggcata tctgttatca agtatgcgtt cagtaaggga atcacatddd ttgatactgc 180  
ggatgtttat ggagccaatg ctaatgaact tttggctgga aaggctttga agcagctgcc 240  
cagagaaaag attcagatag ccacaaaatt tgggtattgct tcacgagggt ttcctgatat 300  
gaagatcaag ggttcgcctg aatatgtgcg atcatgctgt gaagctagct tgaagcgtct 360  
tgatgttgaa tacattgatc tctattatca gcacagagtg gacacatctg tacctataga 420  
ggaaacagtg ggtgaactta agaaattggg cgaagagggt aaagtcaa atattggatt 480  
atctgaagcc agcccagata caataaggag agcacacgca attcatcca tcacagctgt 540  
gcaaatagag tgggtctctgt ggactcgtga ctttgaagaa ga 582

<210> 6344  
<211> 382  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220079b12d1  
  
<400> 6344

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aaaaaaaaag agggccttaa aaaggggcaa aaaaaaagg ggggaaaaaa aaaaaaaaaa 180  
cgggaaaaaa aaaaaaatta aacccccaaa aatttagggg gggccaaaaa aaaaaggggg 240  
ccccattggg gatttaaaaa agcccccgga aaaaagcctt gggcaccctg ggacccccaa 300

aaaaaagaaa accggggggaa accccaaaaa aaagggggggg gggggggcccc aaggggggaaa 360  
 atttggaac tggggggggg gg 382

<210> 6345  
 <211> 526  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079c01a1  
 <400> 6345

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 aaagcctttt caatctacgg cgacatcggt gaatcgaagg tccgtttgat gcaggcaccg 180  
 ctactgatct cacacgattc ggattcagat tttttctcga tctctctctg atctgtgatc 240  
 tctgatctat ttgcgttact tgatctatga tatgatactt gcgttactat atgattcttt 300  
 tattactcac gccaataggt acgttcatct tcttcctttc accaaaggcg aagatcgatc 360  
 ggtttctatt cggctctgtc gttagttttc gtgttatgtc ttttgctttg gatctgatgc 420  
 atcgcgtttt tgtgtgcagg ttatcaacga ccgtgagact ggaaggcca gaggattcgg 480  
 atttgtgacc ttcgtctcag agcagtcaat gaaagatgcg atcgca 526

<210> 6346  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079c01d1  
 <400> 6346

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 cccccacac caaccacccc caagaaaccc accaaaaacc caaggaccaa accaaaaccc 180  
 aaagaaaccc aaaaaaaacc ccccccccat ccccaaaaaa aaaccccccc ccacacaccc 240  
 caaaaaaaag gggaaccccc cacaaacccc gaaaatacgg ggacccctcc acaatgccca 300  
 gagatccac cggtcccccc cccacacccc ccaagaaaga agagaaaccc cccaaccccc 360

acgccccccc cgccgtatcc accgccccac tccccac

397

<210> 6347  
 <211> 574  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079c02a1  
  
 <400> 6347

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 tctccgtgta caaccgcacg gcctccaaag tggaccagac cgtagatcgt gcccgcaacg 180  
 agggctccct ccctctcacg ggccaatata cccctcgcga cttcgttttc tccctccagc 240  
 gccccagatc cgtcatcatc ctggtcaagg ccgggtcccc agtcgaccac accatcgccg 300  
 ccctctgcga ccacctggac cccggcgact gcacatcgca cggcgggaac gagggttacg 360  
 agaacaccga gcgccgatg aacctcgtcg ccgacaaaagg cctactctac ctcggcattg 420  
 gcgtctccgg cggcgaagac ggcgcacgcc acgggtccctc cctcatgccc ggtgggtccc 480  
 accatgccta ctgcaacgtg caggacatnc tccacaaaat cgacgnccag gtcgaggacg 540  
 ggccctgcgt tacctacatc ggcgagggag gctc 574

<210> 6348  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220079c02d1  
  
 <400> 6348

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 aaagcgggta ttttccaacc aaaaaacctc aaagaaacaa aaaatttcaa actaaaagcc 120  
 ggacctgaat gcacgacctt ttaacaaacc accaaaaccc aaaatcaaac aattgggggg 180  
 cccaaattca ggcccaatat tggcagggga gttcaccccc tcgggttgaa aaaccccagg 240  
 ggggacaaac cttttataag aaagggtccc aaaaaaggcc ctttgagcct ggaaaaaggt 300

ttcccgaag tttgcccccc gaaagggatt aaaaaaacca aaaaagggcc aaatttcggg 360  
g 361

<210> 6349  
<211> 310  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220079c03a1  
  
<400> 6349

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atgaaaagtg tcgaagtcaa agctttgctt gagcgccaaa atttgtaata taaggattta 120  
tgtattcttg ataagctggg gttaaagaac atgtcaaaat ggagtaactg aagcaacccc 180  
taaaagattc acttctcggtt ttccttttta aggaacattt gtgggttaca gcaaaatatg 240  
tagataaacg tgtctgacat cattacattt ttcgaatttg attcgtgtat tctaattgtt 300  
ccatcctttg 310

<210> 6350  
<211> 310  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220079c03d1  
  
<400> 6350

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cgtttatcta catattttgc tgtaaccac aaatgttctt taaaaggaa aacgagaagt 120  
gaatctttta ggggttgctt cagttactcc attttgacat gttctttaac cccagcttat 180  
caagaatata taaatcctta tattacaaat tttggcgctc aagcaaagct ttgacttcga 240  
cacttttcat cccatccgag agttacatac aaggatgggc atccgccctt tccatctagc 300  
gtaatgttac 310

<210> 6351  
<211> 545  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220079c04a1

<400> 6351

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 aggaggtaaa gaagattggt actactttga atgaggctaa agtccttgga gaagatgtcg 180  
 cagaagtgtg tgtgagccct ccttttgtgt tccttcctgt tgcaaaaagt ttgctgcgcc 240  
 ctgatttcca tgtttcggca caaaactggt gggttcgcaa aggtggcgct tataccggtg 300  
 aggttagtgc tgaaatgctt gttaatttgg gaattccttg gggtattatt ggtcactctg 360  
 aacggaggct gcttttaaat gaatcaaacg agtttgtggg agataaagct gcctatgcac 420  
 tttaacaagg tctaaaagtt attgcatgca ttggggagac tctcgacagc gtgaagctgg 480  
 tacacaacgg ctggtgtttc tgagcaaaca taagcaattg cagctaaaat atcaaattgg 540  
 gacaa 545

<210> 6352

<211> 473

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079c04d1

<400> 6352

aagtacagtc aactaggcgt tcaacattat ttaccaccca aatgttatgg tagttacact 60  
 atttttgcat tcagaaattt aatcaaaatc caattgatcg cctatggatg agatctcaaa 120  
 ggaaagcgtg tttattcagt actaaacaga gttcaaaaca ttggccacaa agcacagatc 180  
 caaaactcaa aaacagcaat ttccgaagca gcttgaaagg cagcattata tcagttccta 240  
 actacgaatt tcaattcttc ttcacagtgg cagcatttat gatgttcacg aactccggct 300  
 tcagggaggc accaccaacc aaaaatccat caacatcggg ctgtgcggcc aattctttgc 360  
 agtttcctcc atttacagaa ccttcataga taattcttac agatgcagca acttcggcac 420  
 tcacattgtc atgaacccat ttgctcaaat cagcatggac ctcttgagcc tga 473

<210> 6353

<211> 559

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220079c05a1

<400> 6353

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ggaggcgatt aggaagagta ggattcttat atttggagga actgggtaca tagggaagta   60
tatggtgaag gcaagcgtca cgttaggcca tccaactttt gtctacactc gccctcttga  120
tgcacaaact ccttcctcta aggcacagct ttgcaaggag ttcaactcta tgggggtcac  180
acttgtccat ggagaacttg agcatgacca gattctggca gtgattaaac aagtagacat  240
tgcgatatgt tctcttccat accctcaagt gatggagcaa ctcaaaatta tagatgctat  300
caaagttgct ggtaataataa agagattcct tccatcagat tttgggggtgg aagaagatag  360
agtaaaccct cttcctccgt tccaagcttt cctcgataag aaaagaaaaa ttagaaggga  420
aattgaagca gctgggatcc cttatacctt tgtctctgca aactgttttg gtgcttactn  480
tgtcaattat ntgcttcgtc cttacgaaat tactgtctat ggcaactgtg atacataagc  540
tgtgctaaac tatgaagaa                                     559

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<210> 6354

<211> 493

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079c05d1

<400> 6354

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atcccaaaca tttatgcctt ttcattgttat tcaacggtaa tcgggaggat cacctacttt   60
attacaattt ataaccaaca agtgcagggt aaaatgtctt cactcaaaaa gcagcagagg  120
caggggctgg aggatcaaca agaaatatat caagaagttc atcaatggat gtgtagttat  180
aatcaggata tagctgtgaa gcttcaagggt catcttctcc tatctcgaa ctcacgaggt  240
cccctctaac aaatacacta tgaaggatag aaacgggaat attgtgtgag ggggtaaggg  300
tctgtgataa ggttgacaat ctcttctca gcaacaaaat ccttgcgaaa attttgacca  360
cttttttact ccacaaatgc tatcaactca ttttgtgata tgatattctt cgagggtcgg  420
tagataacaa cacgattgta tgttcttggg atcattcgct actttaatag tgtacatggc  480
gatattctct cat                                     493

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<210> 6355  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220079c06a1

<400> 6355  
  
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 ggatgatgga gagagtggac gagacagagg tggttggtgc gagtgtgctg cacggtggca 120  
 tgatcattac tatggtcgtg gaggctcgag tgtatagggc cgggggcatc gctggtgaac 180  
 atgatggatt catagcaatg cgtcaatgtg ctgatatcct tgcagtgcag tatgctgtct 240  
 cctactggat tgatgatctg ctggggcata tgttactgac aggatttatt gtcacctagc 300  
 gttcatagct ccagcanac ggccagaagc atagctgacc acgtggattc aatgtcctgg 360  
 atgcttgagc gcatgttgct 380

<210> 6356  
 <211> 521  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220079c06d1

<400> 6356  
  
 gaagataaaa aaagataatt gaaaagctaa ataatttca aagatccaat ggccagatca 60  
 tgattgcacc gtcatacgct tagcatcaaa cagttgacgc ctcttggaac caagttcaat 120  
 ggatacaagc gcttatcata gacaatatac tgataaacia cagttaaatt atgttcattc 180  
 tggttggtaa ttttatgcct gccctcttca gaagttcaac tgaagcctgt tttgccttca 240  
 aaataacttc ttcctcgctc acatatataa tcttcttggt cttcattatc cataatccat 300  
 tgcacatgac ggaaaccaca ttttctgac gcatacaata cactaagcta gaaatgcagt 360  
 catgaacagg aaccatagac caagacgaag gatccactac aacaatgtca gcctttttcc 420  
 caacctcaag agaacctagt tcatcatccc ataatactga ctttgcacca ttgacagtaa 480  
 ccatcctaag aatagtttca gcaggcaatg caagtggatc t 521

0953113.032200

<210> 6357  
<211> 482  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220079c07a1

<400> 6357

ggttgggacc cgaatacgaa gtcgacgctg acacagatcc ctctgctggg gacgaaggct 60  
gggtccacgag acggggcggc atggacgcag aggtgaagg aagagtcaag gctctgatag 120  
cgtacactcc aatgatcatg tacaacgaca tcgattggct ccgcatattc tgccgcaatc 180  
cggaaggcac tcgctggacc ggtaaatgct ggcacgtcta caacctgctc aagtactaat 240  
tggaactaca attcgatgta cccgtcactt accgcttgac tgaccataa cttgaactac 300  
gtgaatggga tggcataacc caaaagatgt atacgggtag aaagatctgc ttgactgtgc 360  
acttcaaggc tctctgggcc aaaaattgcc ccagatttgg gagtgacat gcactttgcc 420  
taggccttgc acacgggctt gcatcagagg ttgccatact agtggattct ggcatgatca 480  
ag 482

<210> 6358  
<211> 443  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220079c07d1

<400> 6358

agatcaaaat cggtattagc catgttgcac gtatattaat ttgccagaat atgtcaatat 60  
ctgcgggatac acaaggaaga tcctgtaaac ttgtggtcag acagctcatt tatttccttt 120  
gaccaatcag gcaacaaaat tctactttta cagtttcagt gagacatatg ataactaaga 180  
ttcagttgat gtggttgagg tatcatcttt gtgcttgatc ataccagaat ccacaggat 240  
gggaacctct gctgcaagcc acggtgcaag gcctaggcaa agtgcatgtg caattccaaa 300  
tctggggcaa tttttggccc agagaggctt gaagtgcaca gtcaagcaag atctttccac 360  
ccctatacat cttttggggg tttgccatcc aattgagggg agttcgagtt cggggccgtg 420  
gaaggttaag tgacggggac atc 443



<210> 6359  
 <211> 455  
 <212> DNA  
 <213> Glycine' max

<223> Clone ID: jC-gmf102220079c08a1

<400> 6359

agcagttctg ttcattggag cgccccctgcg tcgcgaacga atgaacgaag aacacagaac 60  
 gacgcatatc caagactgaa agtttctaga ttcgtcacct gcgagtaagt ttcttcaatc 120  
 catacttctt agttcttatt ctcaaatttc ttcttcaatc aaactcctta ccgtttgaaa 180  
 atccccctgtt ttattttctt ttaaaaaatag ggtttaacag tgtctcataa ctttcattcc 240  
 ttaatttgaa cctgtttgag ctcaaatacc tctgattttg ctaacgccag attcaatatg 300  
 cccacaaaat tcatggcatt cttgtatatc gtattttaat ccatttcaga taatttgctg 360  
 gcctctgggt tctttcgga cttatgaggt ggagacatat tttgtgataa ccctataccc 420  
 aatttgagc aatggtctga aaagggttg gattg 455

<210> 6360  
 <211> 548  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079c08d1

<400> 6360

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 aatagtctaa tcgctgttta gcaatttgaa tgatgcatga gacatatatg gttgcagaaa 120  
 catcctgaac agtaacaaaa cctaatacaa gaaagtaaag attggaagcc ttactagcct 180  
 tggctaccaa agctatcacg ggtatcatgc tgccacgccc cataactctg accatcatgc 240  
 ccaagctccc cagaatagta gttctgtttc ccatatgaca tgtgggatgg agtggaggtg 300  
 ngcggtgga aggggcatgg gctggtggtg ccaatatacc tttgccctcc cttggatcca 360  
 caaccatacc accctgtgct tgttcaaaaag gcacaccacc cattcctgaa ttccatggct 420  
 ggggattatt tcttgaaaaa tttgggccat ttgggacacc ttgcgggaaa cccactaatg 480  
 aactctggtc cccacctata tcagaacctg agtctgcct aggcatatca tagggagcac 540

cgtaaaat

548

<210> 6361  
 <211> 474  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220079c09a1  
 <400> 6361

agcagctatt atactctcta gagtaattgc ggaatctgct agaatcttct aataatggcg 60  
 aacgacgttg agcaggtcac agagcatggt gaatactccg cgaaggacta ccatgaccct 120  
 cctacggcac cgctgatcga cccagatgag ctcacaaagt ggcccttgta cagagccgcc 180  
 atagctgagt tcatagcaac actccttttt ctttacatca ccgcgttgac cattattggc 240  
 tacaagagac agagtgcac caaaatcccc ggtgacaccg aatgtgacgg cgtaggcatt 300  
 ttgggcatcg cttgggcctt cgggtggcatg atcttcatcc ttgcttactg cactgccgga 360  
 atctctgggg gacacatcaa ccctgcggtg acattcgggt tgttccttgg acgcatgggtg 420  
 tctttggtga cggcgttggt gtacatgata gctcagtgtg ccggtgcaat ctgc 474

<210> 6362  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220079c09d1  
 <400> 6362

gtccatatgt taattttttt aattggctaa agaccccccc cattgaaaga aaaaggcacc 60  
 catggttgca aaaacattgg gaaaaaaaaac caaaccaaaa ccaagggggt aaaaattgcc 120  
 cccctaacta aaaacggtta ccaaagcaaa aacaggaacc acgcggatac ggcttatacc 180  
 ccaaaccatc gggcaaaagc taaacccaaa agaaggggtc cttgcaataa gacatgaccg 240  
 aaacacgtgg atgtggcggg gggaaacaca accaaatgag gagaaattaa gcctgggaaa 300  
 aacttgatt cacatccata aaaaaaaggg cttgccaaaa gggacccaaa actttgatgg 360  
 gaaaaccgc taaaaataat tgacgggaaa atgcggcccc cgggggtcac aaaaag 416

<210> 6363  
 <211> 599  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079c10a1

<400> 6363

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 agtacgggga gggggaagaa aggtgttggt ttattttttt gataattact taaaagatc 120  
 gatttgaggg gtggtgagat ggattgcgaa caagatcctt caccttcatt gatgagtgtg 180  
 ttgaagggtg actgagattg actaaatcag acttccggga gccagtgaat attggaagtg 240  
 atgaaatggt cagtatgaat gagatggcag agattgttct tagctttgag gataagaata 300  
 taccaatata ccatattcct ggcccagaag gtgttcgggt ccgtaattca gacaatacat 360  
 taatcaaaga gaaacttggc tgggctccaa ctatgaagtt gaaggatggg ctgagaatta 420  
 catactttag gatcaaagag cagcttgaga aagagaaggc agaagggtgtt gatttatcag 480  
 gctatggatc atccaaagtg gttcagactc aagccccagt tcaacttggc tcgctacgtg 540  
 ctgcagatgg caaagaatca agctgctagt gcaagggatg ttcggcagtt gcagcagat 599

<210> 6364  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079c10d1

<400> 6364

cacctaagc agcagttatt attattacct caaacaaaac aagaacataa caccatccgt 60  
 taaaatata tgaacaagtt ccaaaactaa cttcaatagc taatctgtaa ccatagatct 120  
 ctacaaaata gcaacataaa agcctgcctt tcacttgga atgcattgtt cactcttatt 180  
 ctttgccatc tgctgcaact gccgaacatc ccttgcaact gcagctttat tctttgcat 240  
 ctgcagcagc tagcgagcca agttgaactg gggcttgagt ctgaaccact ttggatgatc 300  
 catagcctga taaatcaaca ccttctgcct tctctttctc aagctgctct ttgatccaaa 360  
 agtatgtaat tctcagccca tccttcaact tcatagttgg agcccagcca agtttctctt 420

tgattaatgt attgtctgaa ttacggcccc gaacaccttc tgggccagga atatggtata 480  
 ttggtatatt cttatc 496

<210> 6365  
 <211> 644  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079c11a1

<400> 6365

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 aaaaanantcg agaacgagag aatnaacatt gacgacgatg tgctcgacga agctttcaat 120  
 ttctttctacc aggacgcac cacgaagctg aacatcgaag gcacccaaag gtcccaggat 180  
 ctgaaaaagg gtgttgattg cgttcggctg aatgttcaat ctgttttga caaacaactt 240  
 gctgcttggg agagttacat cctccgtcac tgttttgctc ttccccaagg ttttcgtatg 300  
 ccaaacacca acttccagga tgaatcaaata gagaatgccc tagatccagg tgctcctttt 360  
 gatccagata tagatgccc gttagattca ttgagagaaa aactaattga ggtggggaag 420  
 gagtctgaaa tgcttaatca agaaatgcaa gcattagaaa gaaagtctgc tgtcaatgtg 480  
 gctggacata tcaatgaagc tgtacaatta tatgagcaaa attctatgca tgaggtgttt 540  
 cacgagattg tgacgaccga ctcagaactt ggagcaaaga tggcaaagct aaactctagc 600  
 atgattgtag agacttgacc aacataaact annaggattt acag 644

<210> 6366  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079c11d1

<400> 6366

aaccactgaa tatttttagt atacactata aatcacacac attcagtttc gtaattaaat 60  
 ttggagggaa ttctaagatt catgaaattg ccacaaattt tttcagctat aggggcaaat 120  
 tccaacgaat tagcacaaga aaagactaga gtgtacaaca aggggtgaaa caggcaaagt 180  
 ccagtccaac tagattggtg aaaaagacaa gttcacatac ttttcataac acttacaat 240

tcttcaacat cggctaactt catgtttgac aggccttttag caggatttat agcagataga 300  
tccattttctg tgctggaaat ccttttagtt ttt 333

<210> 6367  
<211> 610  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220079c12a1  
  
<400> 6367

gtaacttttt gattcctaga ttctctaaaa ttcgaaattc taatttcgtt aggggaaaga 60  
gattgtttgt gtgtgagtga gtatggctgg aaaaggcgag ggtcctgcta tcggaatcga 120  
tttgggaaacg acgtactctt gcgtcggcgt gtggcaacac gatcgtgttg aaatcatagc 180  
caacgatcag ggtaacagaa ctaccccatc ctacgtggct ttcaccgaca cagaacgggt 240  
gatcggcgat gcggcgaaga accaggctgc tatgaacca accaacaccg tttttgatgc 300  
taagcgtttg attggaaggc gtttttccga tgcattcagta caaggcgaca tgaaattgtg 360  
gccgttcaag gtgattcctg gccctgctga gaaacctatg attgtggtga actacaaggg 420  
ggaggagaaa cagtttttcg cggaagagat atcctccatg gttcttatga agatgaagga 480  
gattgcggat gcgtatctag gttccaccat aaagaatgcg gctgtcactg tgccttgta 540  
cttcaacgac tcacaacgtc tagccacca aggacgtgg tgtcaattct gggctcaacg 600  
tgatgcgaat 610

<210> 6368  
<211> 533  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220079c12d1  
  
<400> 6368

aaaaattaaa aacatatttt tatcttattt ttaaccatag aggtgcactc acccaaagca 60  
ctattttgtt ctgtgttttt aaagtgatat agtatattct acttaaacac ggaacaaaa 120  
agtcttacia aattctatag cttatgcata cattgtactt tcacagtaca ggtaacacag 180  
gaatgggcat catttcatgt caccaccaa acttcacaat ttttcccaa ttcccatatc 240

accctgacac cctcaatddd gactacatga cagtgcaggc atttgggttc tcatcgctga 300  
 acatctgggg agggtaggaa tggaaatacg caggggtgtgc aggatatgca tacacctcca 360  
 tgccatacct tgggtgggtta tagaagtatt cattaatctt aacctctgga acaaccttgt 420  
 tgggtgtcttc agtagttgct ggtgtttgat gcttcctcta ctgtggcttc ttcttacttc 480  
 ttctctgtgg tttcttctcc ttcacaccac tcttcttctc ttctcttttc ttc 533

<210> 6369  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220079d01a1

<400> 6369

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 gctgatatgt cgagacctca ccatgggtatc gtgagctgca agtgtgccac tctcgggata 120  
 cacaacttgc gatgccgtat gacccgagat gtgcgttacg ggtcccaact gctcgttaac 180  
 ctgcacgcca ctgatggcgg ggcgcgagtg agaccggaga acggtctgcg cgaggaggat 240  
 ccttgcgtaa tgcgtgggct gcagcttacc tggcgtcatc aacttacctt gtgaatggat 300  
 agagctcaag ggcgccacct ataccagcc gtgggtgtcc ggaccaagcc ctcatgtgtc 360  
 agtcggcgcg acagtggctg taataacctg ggcgcgtgcc ctgacgggtgc cgtacgctgt 420  
 gctgatcttg gcggcatgtc gtatatattg aaatg 455

<210> 6370  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220079d01d1

<400> 6370

gaatataatt taatttaatt ttaaatacaa tgatatataa tattagatat tatatgatga 60  
 tacaatataa atacgtgcgg agctcttgac cacggaggac attacggctg gctgagcctg 120  
 actacgctg ctctgcgtat gcagacagaa gcgattactg ttcacgagag gccacggcga 180  
 ctgcatatga actgctaact gaaccgaaag tcgcatacac attggctcgtg aagtggagcc 240

cagaggacat tgcggtgtac acacgcatgg cgcttgacaga cgggacacct cacttcctct 300  
 agaccgacta acccaagtgc aagtgccagc tacatg 336

<210> 6371  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220079d02a1

<400> 6371

agagaacaaa gcacttagtg ctattcaata attacgaaaa accaacagcg agtggtgttt 60  
 ttgtttggtc caggetggac cagggaatga atagagatga gaggetttcg gttgaagaga 120  
 actgagttaa gcggcgaatc cattcgcaga atcggcggca gaaattgcca cccgtagcac 180  
 gtctaagacg ggtgaaccaa acacaatatt gcatccacca cttctctttt caatccccaa 240  
 ctcaaactcg tgaagaaaat ctcaatttct aaattgcaat tcttagcact actgctagta 300  
 gtagtaaaaa aaaacaatta gaaagtagta gagcgctggg ttttcttttt ttcggttgtt 360  
 ttactttgaa gatgggtgag aagagcaacg ttggcggcga cgcgattaac acgacactgc 420  
 ttcacgggaa gtacgagctg ggccggctgt tatgccacgg aaccttcgcg aaggtgtacc 480  
 acgcgcg 487

<210> 6372  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220079d02d1

<400> 6372

gttactgacc catgagccac accaatgaat tggcaaacat attgacaatc acgccgacat 60  
 agcaacaaca tcaccacga gcacaacaac acgcagcaca tgtacctgaa tcatcatcga 120  
 gaacaactcc tcgatggcca tttcggtgca ttactgcatt cgccttttca acaattcccc 180  
 tttctgggta aaagacgaca caccctaaag ggcaaaacat agcatagaag caagcaaata 240  
 actaaaatat ttcagtcctg aaacaagaat taacaaaaac aactacaaag gaacgacaat 300

tggcatggga gtcttggttg tgcttcaagc gaggtagga ttctctgcag gagaagtcct 360  
 ccacacgata tctttaagag ctggacgaag ctctcttgcta caaaactggg tatacctcaa 420  
 ggtgtcaccg ctggccttct taacctncac cgccaaaaac gacgggcgta cggcggacaa 480  
 gttcgc 486

<210> 6373  
 <211> 522  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079d03a1  
 <400> 6373

ggtgtgacat cctctcctga gctgaaagaa gaactaatct cacttgcaat ttaggccagg 60  
 atcacatcat gcaggaagct tggtatgctt agtggtgcac agtagtttat ttaggtcct 120  
 taacaggtct tcatcatcca ggcacttggg tcctttttac cggagtgtgc agtcatttaa 180  
 ctctcatttt tgcaggttcc ttcaacagga aatctgttct ttttggcatc cattgccacc 240  
 ttttaaattgg ctgcatatct gagaacatag ctaccgggtt ctggagttag gaatctttgt 300  
 tactggtggt ggcacctgat gtttttagct cggctttgca tcggttttgc caccatgtgt 360  
 gtcttagttt tctaagtttt tacagctacc tgtaccactg tatcagtctt tgtttaccaa 420  
 atgtgtcatg tggttgaact atgttcttca catgatgtct gggtatcagc ttactcga 480  
 gggcagggtta gaagtttcag tgtcatgtgc ttgtattagg gt 522

<210> 6374  
 <211> 535  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079d03d1  
 <400> 6374

ggaatgagac tgaaaatttt atttatttca ttacatttca taacatacag aacaaagggc 60  
 aggtatgaac atcattagac aatataggag gagcagttgc caagttcaaa aaaatgaagc 120  
 cttaaaaaac taggacttgg taaaaataac aacccttccc aaagggacaa aaaggttgtg 180  
 gttatggcag acctatatag cttgctgcc aagccaagcc cctaaaaaca agacttcata 240





gtctcatcta gtacagtaat taaatattaa aagaatttca gttgaattct cttcggcacg 180  
 ttttaagaac acgctacagt ggctgagaaa cctggtgaaa caacaattct gggggcagaa 240  
 aaaagtccac ctttgtccaa aactgatata aggagatcat gccattatga cctcaactct 300  
 tgggttttctt tccataatgc ttgagactat tcttgaataa agggatgatct tgcatttagg 360  
 gagtgtcata attcagaata ttacaacaaa aagacacaac ctttacttaa ttacttcctg 420  
 atattgagga gctcaaagtt ccgcagagga tcatcacggg c 461

<210> 6377  
 <211> 558  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079d05a1

<400> 6377

ggactaaaaa taatccttgt cttattggag aacctgggtg tgggaagaca gcaattgctg 60  
 aagggtctcg tcagcggatt gcaaattggtg atgtacctga aaccatagag ggaaaaaagg 120  
 tcataaccct cgacatgggt ctgctcgttg ctggaactaa ataccgtggt gagtttgagg 180  
 agagggtgaa gaaactgatg gaagagatca aacacagtga cgagataata cttttcatcg 240  
 atgaagtgca cactttgatt ggagcaggag cagcagaagg ggcaattgat gctgctaaca 300  
 tactaaagcc agtctttgca agagggtgaac tacagtgtat tggagccaca acattagacg 360  
 agtacaggaa gcacattgaa aaagatcctg ctttggagag acgattccag ccagttaaag 420  
 tgccagagcc aactgtagat gaaaccatac aaatactgaa aggacttata gagcgggtatg 480  
 aaattcacca caagctccgc tatactgatg atgctctcgt agctgctgca cagctggtct 540  
 accagtatat cagtgatc 558

<210> 6378  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079d05d1

<400> 6378

ccattaaaaa ctttaggtcc attgacaagt aaaacatact atgactatgg tttaaacaaa 60



tttcccaagg aaaacgaagc aggcataagt caatcttaat ttccttttat tagtaaacct 180  
aattataccg aattgttcct aatataatag acgaaaaata gccaccacac acggctagat 240  
tctactttct acagaacaga ttggaggatc atctcggtta gtcctgttt cgcagaagca 300  
acctttgggtt ctccccattc cttgaccttc ttctaagcag ttcaaagtca gccttaccag 360  
cctatatttg agccccaatt tcagtgtcaa aactctgata acgcttacga acaagctcag 420  
caagagaacc atgctcaatc aacttg 446

<210> 6381  
<211> 409  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220079d07a1

<400> 6381  
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ttaagaagaa cacgaaatcc caatcttaat cgtaagcaat tgctctctct gagagaagct 120  
ctcgaattcc ttctgagcct agtagaaatc caatggctat ttcattgatac gattgaaaac 180  
cagtgtgctc actgggtgca cgctcccttc taattccgtg acctttcgat actgtgatcg 240  
ccctacgcat gctcgatact cgatgatctc tgcttatgat aaagcctgag ctctctggag 300  
tacttgaaca ccgttgtagc ccagctatcg tatcagacca caacagggcc acgggaaaga 360  
ccaattctca acgctcattg ctgtgacgat cgatggcgat gacgatagc 409

<210> 6382  
<211> 516  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220079d07d1

<400> 6382  
caatagtatc tatttgccat tcatattata acattataaa tcccatgtca tggaaatcta 60  
ctgtgttaatt gataaaagta acaagaccaa agagtataaa caccgataaa atatatgaat 120  
ttgtacatca aatgaaagat cgaatctcta attgagacat aattattgtt gttcccagtc 180  
aaattcatgc ctctctgtca accataccga cagcgtagtg gccgaagttt ctgccctcag 240

ataatatccg ctgcttatta agtgattgcy tcctagcctt gttcaaaacc gaatttggag 300  
 acttaaacat tctcttttca ccaccagaca ttctgtgttc gttggtatta agatactttc 360  
 tcttcggtga gaaaccaaag acttcatgta agaactcatt ttcctgcata tgcttaatga 420  
 atcctcccc aagaaaatgc ttgataaaat tcaactgtat catttcagac catgatgatg 480  
 cctgcaggga atcaccacca atcttcattg aaatat 516

<210> 6383  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079d08d1

<400> 6383

atatgcattg tttaaaaaga cacattgttt acatgtgaat tggatttata aatataatta 60  
 ctaatttttg caaaaaacga aagcatgggt ttactagtag atctgatacc ttaaattttc 120  
 aacaaaacta gtaaaaaatc actccatagg gggattgccc caggaaagca ccaatgaaca 180  
 caatcattat atagtgtcat gttcaaaatt ggccaaaacc catataaaaa ggggtgacca 240  
 tctggtctca acaacattag ctgcgctcgt gtctagaaac aagaacttca atccttaagg 300  
 aaagccttct ttctttgcaa ttttgaactc ctccaattga atcatgagca attgtaaatt 360  
 agggccttct aaatttgggg cgttattcct aaatggctta caaaaacgca atttccacct 420  
 ttatt 425

<210> 6384  
 <211> 560  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079d09a1

<400> 6384

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 ataaccttgt tgtcctgaaa ttccagtcgt tggatttgta ctagaagggtg aacatgtctg 120  
 gggttagaaa aacacctgca ccgactgaat cagattagaa gacagccctt actgcagaca 180  
 aacgatctgc ttcagaacct gtccctgccag ttccaaaatc taaaggaaac tatttcgact 240

acgatgacga cgattggggg aggaagcctt cctcattcac agcatcaaag gacaaagaca 300  
 ggactagaaa tggtttcagc aactctgggg ggctagagaa ccaactgtgct caagagctgg 360  
 aaaactatgc agcgtacaag tctgaggaga catcacagag tgtcaacaat cgtttgagga 420  
 ttgctgatga cctcaatggg gatgccacat ggacccttga catgttgac cagcatgggtg 480  
 agcagataac caggactcac atatggtgtg tgatactgag aaagacttga gccgggtgtg 540  
 aaaactacta aacaatcttg 560

<210> 6385  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079d09d1

<400> 6385  
 acatatgatt gggatatctat taatttccaa ggaaaaaac ttttcacact tgccaaagac 60  
 tcatcaaatg acagatggag gggccaatgg aggaacaaac cctagcagta ccacacacat 120  
 aagaaaaaaa tatacatggg ccacctcatg agcccatcg cttgagcccc acgttcccca 180  
 ttcgaacagg cctggcccc atgtagggcc acccagagtg acaaaaatac tatcatccga 240  
 cttttggact cccaagccaa accacttata cgcttatggc aattaagaac ccaggctaag 300  
 ggaccgtccc tatagatgac ccgcggtgag cgatgcaaag tcccagagct tcccg 355

<210> 6386  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079d10d1

<400> 6386  
 ggggaaaaaa aaaaattggg aatttaaagg accacaccgg acaaaaaaa aaaaaaagg 60  
 ggggaaaaaa aaaaaaaaaa aaccaatgca aaaaaaaaa aaacaaaaaa aaccccccca 120  
 taaaggataa aaaccctaag gcccaaaaa acccttaaaa aggccccaaa aaacaaaaac 180  
 ccccgagggg gaaaaaaa aggggcaaaa aaggaaagcg gggcacccta aaaaaaatgc 240  
 aacaaccccg ccgggggacgg ccacaaaaga atagaaaaat atgccaacc cggtattgga 300

aatg

304

<210> 6387  
<211> 358  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220079d11d1  
  
<400> 6387

aaaaccaatt ttaaaaacga tgaaactttt caaattcagc actgattcaa tgttttgaac 60  
accattttgt tcgcatttac tttcccatgc ccattaaaag ggcttgaatt taaccaaact 120  
ttaacccaaa attaatact ttttaaccacg cattaactat cacaccgagg ttttaattatt 180  
taaaccgggg ggggttttta aacttttagga gaagaacctt ttggcatgaa atggaacatc 240  
caaaaagaaa attcttgctt cgaaactttt aggacgacgg ctttaaggggc taaatttggg 300  
aaaatttcaa taccaggaaa tcctgtccaa aatttttcca aagacaaggg aatccggc 358

<210> 6388  
<211> 571  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220079d12a1  
  
<400> 6388

gatttggcaa gctgcgatcg acatagatgc cgtaaagaac ccatcgtaag ctcgagctcc 60  
gctcgtggcc tctatatcgg ctgctgcaag tccatcacgc tctgctctct caggctcatca 120  
gggaaaggcc atgaacctac cttgggtgtc cgtgtcagga actagttaca ttgcatcatg 180  
cccttcccc agcagcatct ggtggcactt ctgatttcag agacgcccg tagtcaagaa 240  
catggaagta gaagctgtat tctcgtttt gacgatatcg gtgttgcaaa tctgctatca 300  
ttctcaattt ctaaactctg gtttgatgta cataatttta tcaatgagaa atgctacgat 360  
gacctctacc actgtactaa gaattctatc tataccatat cacttgtttg agacttccac 420  
ttgaggtgaa acaagctcga aggactgact agcatgagct atagtgccga attctttgcc 480  
gcgctgatgt ctgtagcacg atttccaatt tcaatacacg gatgccttaa gatcattgca 540  
acatgaatgc acctgttaag tgtatatact t 571

<210> 6389  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079d12d1

<400> 6389

gctaaaaaca atttctgaat taaaaagttt ataaaattaa aaggtacatt catgtttcaa 60  
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 agaatttggc actatagctc atgctaggca atccttcaag cttttctcac cttaagtggg 180  
 ataaacctca aaatgcttgg acttagatag aatccttagt acacaggtag aggtcttctt 240  
 agcattttctc attgatcaaa ttatgtgcat tagaccacag tgtaaaaatt gacaatgata 300  
 accgcttcat aacccccgat attgtaaaag ggcaaataaa gcttctactt ccatggactt 360  
 g 361

<210> 6390  
 <211> 561  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079e01a1

<400> 6390

gacaagaaaa gaaaaaaagg gagagaagca gaaagagaga gagagagaac tgaaaaaaga 60  
 aaagaaaaga taagactaat taacgttttt ttggtttggg tttcttcaac acgcaggaga 120  
 cacgaagtaa agagacaagt tacatcagat gggttaaaact tggttaaaga gttcgtgtat 180  
 gtgtgtgaaa gtagtttaag gttgtggggg tggtcgaaga agtttttttag ctttgtagat 240  
 agagatgtca ggtggtggag gcagcatagc gtggttcaaa agagatctga ggatagaaga 300  
 caattcagca ctgacagcat gagtgagagc tgggtgctgcg gttgcagttt tcgtatgggc 360  
 acctgaagaa gaaggtcaat actaccctgg caaggtctct agatggtggc tcatgaacag 420  
 tttggctgat cttcattcct atctgaggaa tcttggcact cctgtcatca ctgagcgatc 480  
 cactgacact ctctgttctc ttcttgaggc tggttaagtcc actggagcca ctcaactttt 540  
 tttaatcatt tgcgatgcc c 561



<210> 6391  
 <211> 512  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220079e01d1

<400> 6391

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 actacacaaa ctatactata cagcaagttg caaatattgt acaagaaagc agaagggact 180  
 gcagatgaac tgccgtatga attgaaattt ccatacacat tggaggtcag gtgggtggtaa 240  
 aggagaagga aattaacaca tgtatgttca atgcggcttc aacacctcac tttctctcaa 300  
 cagaaaagtg gtagtgtaat ttccacctcc ttgcttctag tctaattgct ttagatatga 360  
 attaccagct ctgaggtagc tgcctccaat tcagcatttg gtgagactga ggatgccttt 420  
 gcaagaaaga tgaactgttt gttataccat tttcctctcc taaaaattgg tctgagtaac 480  
 tagaagctgg nggagaccat actggaacta ca 512

<210> 6392  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220079e02a1

<400> 6392

ttcttccaaa taaaaaaaaa aaaaagaaaa aggaaggaga taggaaaggg ttaattgaat 60  
 ccaaaaaaaaa gaagagaaaa acaaaatggg cagggtttgg acttcgatga tagcattgtt 120  
 gctttgcctg atgacatcat cggttcgggg cgaggaccct tacatttact acacatggaa 180  
 cgtgacctac ggcaccattg ccccatggg tgtcccccaa cagggtatcc tcatcaatgg 240  
 tcagtttgcc ggccccgaaa tcaactccac cagcaacaac aacgtgggtca tcaatgtctt 300  
 caacaacctg gatgagcctc tcttgttcac atggcatggg gtccaacaga ggaagaactc 360  
 ttggcaagat ggcacattgg gtgcccagtg ccctatcgac ccagctccaa ctacacctac 420  
 cgttttcagg gtaaggatca cattggaact tacttctact acccgaccac cggcttgcaa 480

ctcgca

486

<210> 6393  
 <211> 525  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079e02d1  
  
 <400> 6393

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 ggaaaggggt gtacatcagt gaccacgcaa gaaacatgag aaatgaacta gagctaatta 120  
 attaaccctt cgtctcaatc tcatgatgga acaatttttg agctacgacg tgggtggcact 180  
 gatgatgatc gcagaagaaa aatctcttaa ctggagtaag gtggtggcctt aggcatatcc 240  
 ttgacgattc cgcagacaag ctgggtctct gggaggttgt actcatcctt aagggacctg 300  
 ttgggagaca agacactcac gtacaattgc tgtcccaggt aacgattctc tgccatctnc 360  
 gacctcaagt tccacatttc agcgttgtca aaagtcaaca tgattgcggc ccaagacttt 420  
 gggaacacct ggatggtgtg cctgctgaca gcatcaagaa tgtttagca ctctctcttc 480  
 tctgggctcc actgccccgg ctcaaccgag acggcaaaga aagag 525

<210> 6394  
 <211> 321  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220079e03d1  
  
 <400> 6394

caaatcctac ttagaatcac cagcttcagt ggttcaccat acgcatgcat gctcagtaga 60  
 gcgatatgtg cacaaaagtt actcatgcca tacttacaca gagacggcta tgatcattgc 120  
 ctgaacgtcc accaagaatt tgagattagc atgatcatta aaactggccc tttaactgta 180  
 tggtatcgcg agaatacata ctgcttaagg gattccttaa tagtcaacag tactggaaat 240  
 tccttcttta atttgggact gttaagctca ttgttgcttc tttgaggaa actcaccttg 300  
 gcctggtctt agagagtgaa t 321

<210> 6395  
 <211> 558  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079e04a1

<400> 6395

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 ccgtgaagcc tcctgtctcc cccaacacct tcttcctcgt cggcgccggc gtcagggggc 120  
 tacaaactca tcacgctttc ggcaaattca ctgccatctg catttacctc caatacgacg 180  
 ccctttactt gctctccgtt aagtggaaaa ccaagtctgc tcaccagata acggaatccg 240  
 accaattctt ctgagatctc gttaccgggtg cattcgagaa atttatgcag gtgacaatga 300  
 tcaaaccctt gacggggcag caatactcag agaaagtggc agaaaattgc gtggccatct 360  
 ggaggtctct cgggatttat acagattcag aagccgaagc tatagacaag cttctttctg 420  
 atttcaaaga cctaacattc ccaccaggct cctctatcct ttacactgtc tcaccaatg 480  
 gatcattaac gataagtctc tctagtgatg aaaccattcc agaagctacg agtgctgctc 540  
 tagaagataa actactct 558

<210> 6396  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079e04d1

<400> 6396

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 tgtaatttgc cctttattga ttagtagcac agtgctgaaa gtcacagcag agtgggttagg 180  
 gattttgatc ttgggttgat gatataatga gttcacttat gagattgagg gtcacaaacc 240  
 ccaggctata tgaataagtg agataatctg gagggccaaac tctgttgtgc tgcaggggaa 300  
 acgccattct gacctatcat tgactgcgac acagactctg agaggagggtt atgctctata 360  
 acagctctgg tcacttctgg aatggcatca tgactagaga aacttatcgt taatgatcca 420

ttgggtgaga cagtgaaaag

440

<210> 6397  
 <211> 496  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220079e05a1  
 <400> 6397

atTTTTcttc ctcagtagtg tcatttacgc ttctcttctc tgcagcaact atgcctaacc 60  
 ctaagggtctt cttcgacatg accatcggcg gtcaatctgc tggccgcacg gtgatggagc 120  
 tctacgccga cgtcactccc cgcaccgacg agaactttcg cgcgctttgc accggcgaga 180  
 agggcgtagt gcgagcggc aagccccctcc actacaaggg ctggtccttc caccgcgtga 240  
 tcccagagttt catgtgtcag ggtggcgact tcaccgccgg aaacggatcc ggcggcgagt 300  
 cgatatatgg cgccaagttc accgacgaga acttcgtgaa gaagcacacc ggtcccggca 360  
 tcctctccat ggcgaacgcc ggtcccggaa ccaacggatc tcagttcttc atttgcacgg 420  
 agaagacaga gtggctcgac ggaaagcatg tcgtgttcgg acaggtcacg gaaggattga 480  
 acgttgacaa tgacat 496

<210> 6398  
 <211> 345  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220079e05d1  
 <400> 6398

attaggcgaa ttatagatgt cctaatttta ttgaaggtag ctcatcatgt tttttttatg 60  
 cttctcataa cagactccat tcactcactc tatgaacccc aaccaaccaa ccacatgata 120  
 ctgatattga aaaggaaagg ggaagggttt cgaaatgata tccttaacac cacaatcccc 180  
 taaacgacga cagagaaaag aaaagaagag aaaaaaaagg caaaaacgac accgaaagaa 240  
 ataacacaga ttcagagatt aaagccgcgg gtcaacgtcg tctaagagag ttgaccgcag 300  
 ttggcgatga caacgggctt ggaggtcctg cccgagctgg atccg 345

<210> 6399

<211> 510  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079e06a1  
 <400> 6399

tggaaaactt ctcctcatgc ttggcāaaat ccagttcaaa ctccacaaac tcattgatca 60  
 ttatcgttct catatattcc agacaattac cattccctca gagtctctct tgaatgaact 120  
 tcgaattgtc gaggagatga agcggcaatg cgacgagaaa agagacttgt atgactatat 180  
 ggtaacaaga tatagagaag gaggcaggtc taaaggcggc aaaggggaga ctttttcatt 240  
 gcagcagctg caaactgctc atgatgaata tgacgaagag gctacattgt ttgccttccg 300  
 attgaaatct ctgaagcaag gacaatcgcg tagtcttcta acacaggcag cagccacca 360  
 tgctgctcag ttatgtttct tcaagaaagc agtcaagtcc cttgagacag tagaaccaca 420  
 tgttaaataca gtaactgaac agcaacacat tgattaccac ttcagtgggc ctgaagagga 480  
 tgatggcgat gaagggtgatt atggagatga 510

<210> 6400  
 <211> 500  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079e06d1  
 <400> 6400

gcaaattata tatgaaatth caacactttc tacactgtct aaatttcaca attaaaaaaa 60  
 taaactgatc aaataaatcc aggaaaacaa aataatagaa aataagaaaa tagtaaacia 120  
 aacagtcttg gttgaaaaat tacctctggc ctaaacatcc aagaaaacag catcagccat 180  
 ctaatgatgg ccgactacta gataatgata ttggcatcag aggaggagaa gcaatattct 240  
 cagatataga tgatctatga gaggattcta gtgttcttgg catatgtaat gctgccactc 300  
 ttgcgccact agaaggtatg gagaaactac gagccatggc ctgaggtggc attggcagtg 360  
 gagatgctgc acttgatgca accaaattat ttgcagtcac cttttgacct ctagacacca 420  
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 gcctaggagt tcatgaagct 500

[illegible]

<400> 6401

|       |             |
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| <210> | 6402        |
| <211> | 382         |
| <212> | DNA         |
| <213> | Glycine max |

<400> 6402

2838

<210> 6403  
 <211> 524  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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<400> 6403

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 aatggcattt ataaatataa ttactaattt ttcagtaaat gaaagcatct ttttactagt 120  
 agatctcata ccttccattt tcaacatttc tagtaaaaaa tcactccata tgtctattgc 180  
 ccctggtaag caccaatgaa cacaatcatt atatagtgtc atgttctcat ttggccaata 240  
 cccatatcta ttggggtgac catctgggtc caataacata gcttgcgctg tgtctagtaa 300  
 catgaacttc aatcctttct ttatgccttc tttctttgca attttgaact cctccaattg 360  
 aagtcatgtg taattctaaa ttatggcctt ctaactttgn ttcggtattc ctaaattggc 420  
 tagttctcac gcaatttcca cctttattcc ataaccatt tncaagtgag atggtgaaaa 480  
 tgttctaaga aatgttatac ccttaaaatt ctctaactga tgat 524

<210> 6404  
 <211> 563  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220079e09a1

<400> 6404

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 atttcttctt ccgtatgcat gttcccaccg tctaaaaaac ctagcaaagc aacaaaacgg 120  
 cgtcatgctt gggaagtagc atgcaatggt aaccctagaa ataggaggga cattctgac 180  
 ggccttgagg gactctatgg tgctacaaca agtctcacia gtcacaacac tggttctgca 240  
 tttggtgctt cattgtcgcc ttcagatcca actaactgcy ttcaaccgga cccagaaaaa 300  
 gacccttttt gccaccacc ccccttcaaa gactacgagc tccctccaca cgatgacaag 360  
 acattacccc ttgaattag accagctgct catttggtca ctgatgatta catagccaag 420  
 tatgaggaag ccgtgaggcg catgcaagac cttccacctg atgatcctcg cagtttcatg 480

caacaggcca atgtccaccg tgccactgc gatggtcgcg gctatactca taagggttc 540  
gctgactaca agcttgacgt tca 563

<210> 6405  
<211> 540  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220079e09d1  
  
<400> 6405

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ctattaagtt ccaaggaaaa taactacaac aactaatta agaaacaaca aatgacagat 120  
agagtatccc ttggagggaac aaaccctagc agtagcacac acataattta gattttattca 180  
tcgtccacct caggataaac acgctttatc cttacgtcct taattgtaac aggcttgtcc 240  
ccatatatgg gagccagtgt gacagaaata ctatcatcgt cttttgttac tcccaagtct 300  
ttcaacttat acgttaatgg caatttgaaa gaagctttgg tgatgttggt atggttgaca 360  
tgcggcgagt gaggcaaagt cacaagctt cccgcaaact ctgaatcctg gggccaatc 420  
tcattgtcgc ctgggtcgtt gatgaacaca tcaaacctca caccatcagt gctatcgta 480  
tcaacatcta tcaactaacac ctcttctacg cttcttctt cttcttattc tcgttctgga 540

<210> 6406  
<211> 519  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220079e10a1  
  
<400> 6406

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gnggggtgggg gcgggggggtt tgnntttttt ttgggtgtat attttttctt ccactatgct 120  
ctctctctct ctcttgggcc cacatgtaga tgtgccttcc ttttccaaag ggagcagcaa 180  
caacttgtgt actcttcttg ttgctttcca cttctcagaa agagatgcct caccacaact 240  
atttcccttg cttgttgaag cctagtatca ttattgtcta gttcttgctg cgcttttttg 300  
tgttctctct ctctctctct ctcttttatg gatcttgggg tagtggggtt ggaggggggct 360



gggtgggatca caaagtggct gcgtgtatcg atcctatggt gcttcagatc ctgatacaaa 420  
gcacacggga tacagatctg gtgtgcctaa gccagattca tctgacattg caagtaaaca 480  
tgaccagtta cgaacttatg aagtggccaa aattgatca 519

<210> 6407  
<211> 334  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220079e10d1  
<400> 6407

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gatcaaacct tatgagtgaag agagacagta gctagccagc tacaactcgg gggggccaca 120  
ttccacaaac gcgaatccat tcccaaacaa acttttagagg aagaagaaca acaaaaaacc 180  
gaggcaaaact tgaaaacaag gaatcagaaa actggagacc ctggtgatca aaggggcccc 240  
ccttggacag atcccagggc tgctgatgga aagtgagcca aatgctggtt tttgcaacac 300  
cccaggtggt gaagacccta gtggaggact attg 334

<210> 6408  
<211> 655  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220079e11a1  
<400> 6408

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aggagagaaa aaaaaagagg aagatatatt atagtaataa tagttctact agtaaacagg 120  
gtagtactct ataaatagca tttgcatgca ccttagtctt caccaaaata ctctcttgg 180  
catcttgtgt tgcgtccctc ttttaagcta tttcttctc ttaacacaat tggttgtgcc 240  
aattgccata gtcaccaacc aattaacaaa ggtatatata tcatcatatc atcaccaaat 300  
gaaaaatatt gggttgcttt ttcttgggt ggtggctact tttgtggtgg cagccacagc 360  
tggtagcttt taccaagact ttgaaataac gtggggtggt gagcgtgccaa aaatctatga 420

gaatggaaac cttctcacac tctcccttga cagagcctct ggctctggct ttcgttccaa 480  
 aaaagagtac ttgctcggaa aaattgacat gcagctcaag cttgtgcctg gtaactctgc 540  
 tggaacagta actgcctatt atttatcttc tctggngcct actcatgacg aaatagacta 600  
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<210> 6409  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220079e11d1  
 <400> 6409

gaataataaa actccaacaa ttttattaat gaaaatactt tacaatttca gcacatatac 60  
 actgccatga atataatttt gcacgctata attatctttc gccacaaaca atggagtagt 120  
 gctcaacaaa gcacaaacca acaataataa cagtttttagt tgcattaatt tacaccagaa 180  
 agtaaattaa cgtaataggc aacacatgtg tgtcacgttc atgaggatca ttttataatg 240  
 atatgcaaca ttgaattaaa tattctcatg caatggagca ttctggagga aggcccttgag 300  
 ggaaacgttt gatatcagtg caataattgt aaatcatgta attcttttgc acccacggat 360  
 ctttgccctgc cccgtggcgt ccaatgattg gccagtggag gaaaaagttt ggggatt 417

<210> 6410  
 <211> 625  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220079e12a1  
 <400> 6410

gaacatccaa tctgcagtcg acatagagca catagaaacc attctagttg atgcaccgtt 60  
 ctgaattttg gatcagccta tgctaattgt ttcaacacaa tacccgatta ctttcttcta 120  
 tagagaagat cttcatccag gcaaaacaat gaaagtacaa ttcagcaagc ctccctttca 180  
 acaaccatgg ggtgtcggta catggctaaa tggaaattaa agacactact caagaaggat 240  
 atagtgtcga agagctatgc atcaagaaag aagccattga gggagaagag aagttttgtg 300  
 caaaatcctt gggaacagta attggttttg ccatttcaaa gctgggaaag aacattcaag 360

tactttcaag ttcctttgtc aataagcaag accaatacac tgtggaagga gtgcagaatc 420  
 ttggagacaa agcagtgatg tgcatagggc taaatttcag aactgcagta ttttactgcc 480  
 atgaagtccg tgaacaaca gctttcatgg ctccattggg ggctggatgat ggaacaaaaa 540  
 ctcatgcact tgctatttgc cactcaaata cttctggaat gaatcatcaa atgcttcac 600  
 aacttatggg agttgatccc tgaac 625

<210> 6411  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079e12d1

<400> 6411  
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 tctagctaga gaaggtagta cttgcacaac acacagcaca tgataattta ttttatacac 180  
 aatctcattc tcatgggtgct caagatgcat ggactaatta agcaacaatg ttgggtctgat 240  
 agggcagtggt ccacaganta aattgggtac ccataaaatg gccttgcttc caaggaaatg 300  
 gcaacagggt tagttccagg atcaactcca taagttgatg aagcatttga tgattcattc 360  
 cagaagtatt tgagtggc 378

<210> 6412  
 <211> 522  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079f01a1

<400> 6412  
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 cattctggag aggagaagtc caacctgctc tcgcgcttga ccaggaacga gtccaatttg 120  
 gtgtccaagt acaccatatg ggttgagttc gacaccaata gcttgaacat cgatgctaag 180  
 gtcacaaagg ctacattggg ggacaccggg ggccaggaaa ggtaccgtgc cattactagt 240  
 gcttactacc gaggagctgt cggcgcttca cttgtctatg acgtcacact ccgtgctaca 300

ttcgagaatg ctgcacgatt gttgaaagaa ttgagagatc acacagaccc caacatcgcg 360  
gtcatgctta ttggaaataa ggccgatctt cgtcaccttg ttgctgtccc atccgacgac 420  
ggataatctt ttgccgagca agaattcttc tacttcatgg aaacttctgc attataagca 480  
accaatgttg gaaatgcatt tactgaagtg ctttctcaga ta 522

<210> 6413  
<211> 504  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220079f01d1

<400> 6413

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cgattccagt gtaggcattt acaagatgaa acaggctata aaaaccaact gccatagatg 120  
aagcatctag tttgagcagc acccaaagt cttcaaaacg gaggaatcgc ctttcacatt 180  
tattgactga ccttttagatg ggacagcata agaactggca ttcttgccgg tctcaacagt 240  
tctcttgctc actattcacg atatctgaga aagaacctct gtaaatgcat tttcaacatc 300  
ggttgcttgt aatgccgaag tttccatgaa gctgagagat tccttgccg tataagattt 360  
tccatcttct gttgggacag caacaagggtg tcgaagatcc gacttatttc caataagcat 420  
gaccacacag ctggggctctg tgtgagctgt caactcttcc aaccatgttg cagtattctc 480  
aaatgtagca cggcgtgtga catt 504

<210> 6414  
<211> 454  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220079f02a1

<400> 6414

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attgcgattt gaatttgaat ttcattttca acttccctgt gatgccttac acggtccggg 120  
agaacctttg gatcggggaac atcggcgact cggcggagat tctcgaaaac ggcgccgtac 180  
agagcgtgac acacattctc tccgtcctca gtcgcgactc catttacttc ttatccgaat 240



tcatgaaaat aagtagaggg gaactttggg gtattggtaa taaaaatagg atatggaggg 240  
 ttatatcaaa ccctatgttt gggtagcatt tatggcccag aagtgattag acttacattt 300  
 tactgataga tccttggcat taatctcacg gaattcaaat tagaaatcac ggtcttttagc 360  
 aactgggga tagacttgcg ggtagcgggt g 391

<210> 6417  
 <211> 224  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079f04d1  
 <400> 6417

ggggaaaaag ccttcgtttt tatttaattt taaatggggg tcacaacccc ttggaaacct 60  
 agccggttcc aaccctaaaag gccttcatgg gaaatagggc cctacaacgg gttaaaacct 120  
 ccataataaa aattcataac ccatccaacc caaaaaaaaaa gggggggccc cttttttttt 180  
 tttatgggac aaaaggcccg gaaactttgc ttccgggggt tccc 224

<210> 6418  
 <211> 526  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079f05a1  
 <400> 6418

ctacaagtga agagttggaa acaaaagatg gcaggtttgg gaatatggat ggggttctgtt 60  
 agcctgtgtc ttctgtctgt atcagtatca ggtctgtctc aacgcctaga gcaccctgtc 120  
 aaagctgatg gctcacttag ccttatggtc attggagact ggggaaggaa aggaacatac 180  
 aaccaatctc aagttgccac tcagatggga agggttgctg caaagttaaa tatcgacttt 240  
 gtgatatcca ctggagacaa tttctacgat gatggattga ctggcataga tgaccctgca 300  
 tttgaaattt ctttctcaaa aatctacact gccaaagagcc tccaaaagca atggatatgt 360  
 gtgttgggca accatgacta caggggtgat gtcgaagctc aatcgaatcc aatccttcag 420  
 aaaatcgatc ctagatggat ctgccaaaga tcattcattg ctgatactga aattgctgag 480  
 ttcttcttca ttgattcaac accttttgtg gacaagtatt ttctta 526

<210> 6419  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220079f05d1  
 <400> 6419

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 tttttttttt tttttttttt tttttttttt ttggggcgta aaaaaggggt tcacccccca 120  
 cattaaaaaa taatggggga ccttttttaa cccaaaggcc ccctttcccc cccttattaa 180  
 aaggggaaaa aaccaagggg ttaaaaaacca aacgggggggt ttgggtttggg ggaaaaataa 240  
 gggggggccaa aacctaacct tgggggtcctt ttgcaacccc cggaacccca aaaccttttt 300  
 tatatggcga aaaccgaaat ccccaacccc ctggggcaat tccccacagg gaaaaatttc 360  
 cccaaaatat gggaaaaaac caccttggca ttgggttctt cccgctcccc gggc 414

<210> 6420  
 <211> 468  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220079f06a1  
 <400> 6420

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 ttctctcgat aagtgtggtg gctgcgccgt tattgacggg ggttttgcca ctgaacttga 120  
 aaggcatggg gcggacctca atgacgaact ctggagtgcc aaatccctta ttagctcccc 180  
 acatctctgt cgaagggttc acctagatta cctcgatgca tgagcaaaca taatattaac 240  
 agcatcttat caggccacta ttgacggctt cgaggccaaa gggttcttta gagaagtatg 300  
 tgaaactatg cttacaagaa gcggggtgat tgcacgtgag gcacgtgaaa cttattctga 360  
 taggtgcacc agagattctt ctgactctat gagagatgat agatataggt aaccttccat 420  
 tgtaattgca acttctgtcg caagctatgg agcgtattgg gctgatgg 468

<210> 6421  
 <211> 464  
 <212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220079f06d1

<400> 6421

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 aaacacactt caacagttat atacatttgt ctttaagttt cccatatgtt gcctctgcta 120  
 tgcctcttat agtattagga gtagtcctgc agcagccacc aaaaaggga gccccagcat 180  
 cagccactt gcctatgtag gagacaaaat catgctctgc tgccccactt gatttcaccc 240  
 attggttgct ctgagcgata taagtctccc cactgttggg atatacaagt actgggtttac 300  
 ttgttgccctt cttgataaat gaaatcaatc catgaataaa tctaggagca gtacaattaa 360  
 ctccaaccgc aacaacttgt ctgcatgaat cagctattga agcgcattca aagatagagt 420  
 caccactaac cacattgctt tcatccttac aactaanaga aaac 464

<210> 6422  
 <211> 523  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220079f07a1  
 <400> 6422

ctccgtcact tgtgaatcta ttgaatcaac aatcatgtcg gacgaagagc accatgtcga 60  
 gtccaaggcc gacgccggag cctgcaaaac ctaccctgag caagccggta ccatgcgcaa 120  
 gaacggctac agtagtcatc aaaggccgcc cctgcaaggt tgcggaagct tcgacttcca 180  
 aaactggaaa gcacggtcac gctaagtgtc actttgtggg aatcgacatt atcactgcc 240  
 agacacttga ggatattgtg ccctcttctc acaactgtga tgtttctcat gggaatcgta 300  
 ctgagtacca gtcattgat attgctgacg atggattttt gagtctgctt actgaaaatg 360  
 gatacactaa cgatgaccgt aagcgtccca ctgatgagag tctgctcact cagataaagg 420  
 atggatttgc tgagggcaaa gatcttggtt gggctgtcat gtccgctatg ggtgaggaac 480  
 agatatgtgc cctcaaggat attgggcca aagactagct cct 523

<210> 6423  
 <211> 450



<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079f07d1  
 <400> 6423

cccacaatag actcctcctt tataataaaa tcacaggaca acaaagaaaa ccagaaaaat 60  
 gtgataatag tttctgtcac cacatccata aaaaccattg ttaagactag tctgactaga 120  
 atctatacgc caggtcttga acaaaccaat ataaaaggct tacaaaaata tctttgctta 180  
 aatagaaaat agaaataaca agcaacaagc accaaaagct agttcttttg cccaatatcc 240  
 ttgagggcac aaatctgttc ctcacccata gcagacatga cagacacaac aagatccttg 300  
 ccctcagcaa atccatcctt tatctgagtg agcagactct catcagtggg aagcttgagg 360  
 tcatecttag tgttaccatt ttcagtaagc agactcaaaa atccatectc agcaatatca 420  
 atgagctggt aatcagtacg attcacatga 450

<210> 6424  
 <211> 351  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079f08a1  
 <400> 6424

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 tctacgccgc acgccgaaac catggccgga aaaggagagg gtctctgctat cggaatcgat 120  
 ctccgaacca cctactcttg cgtcggtgtg tggcaacatg accgcactga aatcatcgcc 180  
 aactgaccaa gggaacagaa ccacgccgtc ttacgtcgga ttcactgaca ccgatcgtct 240  
 catcggtgat gctgccaaga atcaagtcgc catgaacccc agtaacaccg tgttcgatgc 300  
 caacaggctg attgggtcgta gattcagtga ttcctctgct cagagtgata t 351

<210> 6425  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079f08d1  
 <400> 6425

gatgactaaa gacaagatat gtcattttaac aagacagaat aattcctaca ggtaaagtgc 60  
 ataacaattg agtataccat ttaatacatg aaaataacgc aaataacata atgcttaaag 120  
 caacgttcat atcacaaggg aaaaatagtt ggaatcccat ccaacaaaaa tcatgcgatt 180  
 aaaatccaat taaaaaagca taaagtaaaa taagtthtta aaacagggtt ttggaggaaa 240  
 gccactacat ttagtccact ttctcaatct tggggccagc accactttca ccagaaggag 300  
 gagcagcata ctcatctct gctgcaccag taccaccac gtctggacca gcgccatctt 360  
 gggacatatt ggcaatgatt ggattgcaga tgctttccaa ttccttcatt ttg 413

<210> 6426  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220079f09d1  
 <400> 6426

gcagcaagat aacctgtcaa aaattgtaat tcagaacacg taaaactaca tctaattgcag 60  
 agtcagaaac catagtttta aatgggtattt gtagccctct tgcatagaaa cacaaattaa 120  
 gcattctttt gtgcaggctt ctttagcccc tctaggctct agcatagaac accaattaag 180  
 cattcttttg tgcaggtttc tttgaattgt ttttccgacg aaccttcacc aaagcttttt 240  
 gtaaattctc ttcacgttc 259

<210> 6427  
 <211> 661  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220079f10a1  
 <400> 6427

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 naaaaccaga gagagagaga gaaagggaaa aatttcagcg ataaaaggga tagttaatgt 120  
 taagggaccc aatataagac gggcaatgag acaatatttc ctatatatgc agctttcttt 180  
 ttaaaattgt caatgagaca cctgcactaa gtgacgagtt aaatataaaa ttaagggtta 240

atatgttttt tcttcttcct gaaaacaggt taatatttat ttttatatct taaaagttaa 300  
attattttatt ttttatcttt tatttatgaa aatgtgttac atctgattct tatttctata 360  
cgtgcatgag gaattaaaaa tagatTTTTT tatgaggcaa agatcagata tgatatattt 420  
tcataaataa aagttaaaaa agaaataatt tatttttggt ttaccttttt gcctagacta 480  
aaacacatat ttaacctttt aaggattaaa tgtttttact tgaaaaaatt actaaatctt 540  
aagggtgatg ggtgtacttg agaaaatgta aaacatattt attgatggaa aacctaataa 600  
ttataatgaa tacatataat tgattattct tttttacttt ctacaaaatc actaaaaatt 660  
t 661

<210> 6428  
<211> 507  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220079f10d1  
<400> 6428

ccaacaatta atcactattt aatttcccc acattattgt tttccctttt ctatttccac 60  
tgttacatta tgtcatgaca acaacaatag taataatgaa agcctagaac caattaagat 120  
tcctttgtcc ctaactagcc caaagcatgt ttaatcatta atcacttgca cccaccagca 180  
ccaaacccaa ttctcccacc ttcaacatca tacacaacct ctattgttct ctgttgtagc 240  
ttcccatata tagtaacatc actatcgtca ccatttgagg caaaagccaa acaaacctgc 300  
ttggtactcg ccacgaagag tataccctgt ggaggcagct tcaccgtgac gccgccggcg 360  
aacgaaaatt ctatcgtggg aatggaaaac accttgtaac cgctgagatc atacacgtgt 420  
cgaggatgga gagttccccg gcggagggtt ttttgacatg ccttgacgaa ggcggtatcg 480  
aggcgccgta gccgttgggg ggaggcg 507

<210> 6429  
<211> 592  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220079f11a1  
<400> 6429

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aatcaaggga acagagaaca naggggaagaa aangttgaag gcaagcgtna cgttaggcca 120  
tccaacgggt gtctacactc gccctcttga tgcacaaact ccttctctta aggcacagct 180  
ttgcaaggag ttcaactcta tgggggtcac acttggtccat ggagaacttg agcatgacca 240  
gattctggca gtgattaaac aagtagacat tgtgatatgt tctcttccat accctcaagt 300  
gatggagcaa ctcaaaatta tagatgctat caaagttgct ggtaataata agagattcct 360  
tccatcagat tttgggggtgg aagaagatag agtaaaccct cttcctccgt tccaagcttt 420  
cctcgataag aaaagaaaaa ttagaaggga aattgaagca gctgggatcc cttatacctt 480  
tgtctctgca aactgttttg gtgcttactt tgtcaattat ttgcttcgtc cttacgaaat 540  
tactgtctat ggcaacggtg atacaaaagc tgtgctaaac tatgaagaag at 592

<210> 6430  
<211> 452  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220079f11d1  
<400> 6430

aatataaaat caaatattta ttaagaataa aatcatatth aagtctatta atcatgtatc 60  
ccaaacattt atgccttttc atggatttca acggtaatcg ggaggatcac ctactttatt 120  
acaatttata accaacaagt gcagggtaaa atgtcttcac tcaaaagcag cagaggcagg 180  
ggctggagga tcaacaagaa atatatcaag aagttcatca atggatgtgt agttataatc 240  
aggatatagc tgggaagctt caagggcatc ttctcctatc tcgaacctca cgagggcccc 300  
tctaacaaat acactatgaa ggatagaaac gggaatattg tgtgaggggg taaaggctctg 360  
tgaatagggt gacaatcttt ttctcagcaa caaaatcctt gcgaaaattt tgccactttt 420  
ttgctccac aatgctatca actcattttg gg 452

<210> 6431  
<211> 628  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations

<223> Clone ID: jC-gmf102220079f12a1

<400> 6431

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gagagagacc ggggagaggg agatgagagg ggaangaatt tggaaaaaag gagaattaat 120  
gagaaagtat ggggtgtattg aaagcgcgct tntgtgcttt tgggatccct tgctgctgct 180  
tgctagcttc agctatgctc cttctgtttc ggccacaact gaaatttcag ggaatgaagt 240  
gaacacagat gggaagggtga taaatgaaga gttagcaaaa ccaagtctaa aaggacatga 300  
tgaagaagca aagttcaaag gatTTTTTcc aaaaccaatt cctatagtta aaccaattcc 360  
aaagccaatt cctattatta aacctattcc aattccagtt tataagccta ttccaaaacc 420  
aattcctatt gttaagccta ttccaaagtc aattccagtt gctaagccaa ttcctaata 480  
agaagaaaaa ttcaaaggat ttattccaaa gccaatcct ataattaagc ctattccaaa 540  
gataattcct attgctaaac ctattccaaa gataattcct atcgttaaac ctattcctat 600  
tccagtttat aagcctaaac caaaacta 628

<210> 6432

<211> 390

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079f12d1

<400> 6432

TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT 60  
TTTTTTTTTT TTTTTTTTTT taggaaaaac cgggccctt tattacaaaa aaaaaaacga 120  
tctaaaaacg atccccccgg aaactttatt gaacaaagag catgaaccac ttattttcca 180  
ttacaggacc ccaaaggggg cccaaattta ttttgaaaaa ccaaggagcc tggcctaaaa 240  
agggttttaa aaaggggacc cataacctta taggtgggaa aaaagggtta aacccttagg 300  
ggggtggaaa tggcttggga aatgcaaagg gggaaaaaag agggttcttg aaatggggag 360  
aaaagggacc ttaagaaaaa aaggcctttt 390

<210> 6433

<211> 486

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220079g01a1

<400> 6433

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tttgaacccc accgtcagcc ttagctcaac gaatcgggag acagaggatc acgatgcac 120
atgatcttcc tgggggggctt ctttaccaaa cgcacccac tctacacctt tgttgatcgt 180
gtctagatcg tgaaagcttg gcacggaaag aagatttggg ccttgactgt cagtggcaga 240
tagggatcag ctgctgcag acaacagtag tagcaaggat tgcgacaatg ctgaaaattc 300
tgcgaccaat gatcagactg catacgggaa ttccgcagat gaaaacttac aatcgcaaac 360
cgaagttaat gctgtgtcag gatctgcaac attagaggct tccatgtcca atggttcaat 420
taaccaagag caatggtcag aagcatctcc tatgtcacia tctgcaacca acgagctttc 480
ctgact 486
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<210> 6434

<211> 525

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220079g01d1

<400> 6434

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gtgaaaaact gatcatcaac atcatcagtt catgaagttt gaagcagccg aagcttgtct 60
acatatatat aataaatcaa ctatctgatt gttttatggg gaattcttaa caccacacct 120
aagtactcat tgaaatggat tgcaccaact ttccacacia tgtaagttgc tgcaaaccac 180
actgtgctga taaaaacaaa tgagaagata atgaaaaaga gatcagaacc tccaggaaat 240
tggaagtgga agcctgttga caaccctcgt ttgctatcat caaacaatt aatagggggc 300
tctggaagtc cagatTTTTT cttccctgac ctttgtcac tttgttttga agcctccaac 360
accctgctgc tcatgtctgg cttagatgct tctgattgag cgtatcgggt gatggatcga 420
gctgccttta acctctctgt tgcagtcacg gaagctcgtt ggatgcagat cgtgacttac 480
gagatgcttc tgacctttgc tattggctaa ttgaaccatt ggaaa 525
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<210> 6435

<211> 588  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220079g02a1

<400> 6435

tagaagcaat aagatgaaaa tgaaagtgct tgttttgttt gttgctacag ttttggttagc 60  
 atatgaatgc catggctcag actaccagaa gtccctctc caaatgaaaa ctgggttttg 120  
 tgggcaatac agcaatgagg tggcatgtgc cagttggagg cttggcgtgg aagcaaacia 180  
 cgtagtcaag tggcaaactg ttcctgcagc ttgaggagag tacatagctg actacgttct 240  
 aggagaccaa tatagatcag attccaaaac agttaaccaa caagcttatt tctatgctaa 300  
 atccctcaaa ctaccaaca aagatgtctt tgtcttgga gttgacgaca ctactctctc 360  
 taatctccag tattttgcta accatggatt tgggtgtgaa ccacacaata cgacggcggt 420  
 taagaactgg gttcttgatg gcgaagcatt cgcactgcca gagactctta aaatgcacaa 480  
 caaactgttg gctctcggca tcaagattgt attcttatca gaaagaccac tgagtctagg 540  
 ggatgtaaca gccatgaact taaggagggt gggattcaca catgggag 588

<210> 6436  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220079g02d1

<400> 6436

cttaatggaa caagagctca taattcatga aagcctcgaa aagggaac acctttgttc 60  
 agggccccta catgactaag taataatact caggatctta tttcatagaa attaaggagc 120  
 aacttaaagg cttgatttga gagcttaatc atagtccaag ggattaggca gcttaaaagt 180  
 cctagtcctt ttgttgcttc ccaggaggtc actccattgg tctccaacgt ttccaatgat 240  
 tctgtatccc tctttttcca gcttttcttt ctgagctgat ttggattcaa atgataactt 300  
 accagagtac tcagatggat ccctgagaat taacttctcc catgtgttga atccaacctc 360  
 ctttaagtgc ttggctgtta catcccttaa actcaggggt ctttctgata agaatacaat 420  
 cttgatgc 428

<210> 6437  
 <211> 545  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220079g03a1  
  
 <400> 6437  
  
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 gagagatatg accgattacg aagagagata cgaagggaac ggagaagaag aggaacttca 120  
 caattctcat catcagcctc atcctgattc ctctccttta cccaccacg acgatctcac 180  
 cgattccaaa tctcgccatg gatctcgga ttatgacaga gattcttcca gaagcagaga 240  
 taaggagcgg gagaaaggga gagacaggga gaaaaaagg gaaaaggga gggacaggga 300  
 aaggagaaaa agtagggata gggattcgga gagaagcagg gacaaggaca gagataggga 360  
 taagagcaaa gacagggaga gggaccggga tcgtgatggt gagaaggaaa gggaccgtga 420  
 cagggaccgc catcatagag atcgacacag ggatcgtggt gagatgaggg aaaggacaag 480  
 ggatagagat gacgatgatt atcacagaag tcgtgacttt gacagaagaa aggattttga 540  
 tagag 545

<210> 6438  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220079g03d1  
  
 <400> 6438  
  
 agaaaaattc ttaagggcc cccaaaatcc ctgggaaccg ggaaaacctt ttaacaaaa 60  
 tggcaaaaag gcttttttaa caccgcatt taaaaaaaac aagttttgga ctatgacccc 120  
 aatttttagct taacaggtta tgaaaaaaa cccaaaaaat ttccctgcca aacaaaaaaa 180  
 aacccaaacc cccataatt aaccctaaa aacccccggg aaaaaattgt tcctggaaa 240  
 aaaaaccctt tcccttgaa ttccaaaaaa atttgggcc tttaaaccg cccgggcttt 300  
 ttgaccccc ccaaaataaa cggaccccaa aaaaaccttt tcaaactcaa ggggggggtt 360  
 cccacaaaa ggggggc 377



<210> 6439  
 <211> 568  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079g04a1

<400> 6439

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cttcaatttc aatagtctct tcttcattct cattcgtctc cgattctcct tccacttctt   60
cccctaccac cagaatcaga cccttcttct tcccttctct caaccgaacc cctctttttg  120
tggtccccag agtccccctt cccaatgcta cctcagagc ctcttcttct tccgtttccg  180
caccgcagga aaatgggtcg ccggaacagt tctgaagag caattccatc gccgatttct  240
tgcggttcaa ggcggggcc gatgggtgtg tcagtgccga attgcagaca gctcttgtca  300
gctataagaa gaggttcctt tggctactta tgcgcccttt ccttcagggt gacttggttt  360
ccacaattca catcgtgat gaagagtatt ttctggccct ccaaaaggaa cttgagagct  420
atgatttgtt cctttacgaa atggtagcta gcatggaaag tttagaaaat agaagaaatg  480
ctactactac aaaaaggtta aaaagttcac gcacaagggg ttttaacatt ctgggatgca  540
tccaaagaca gatggctcta attcttac                                     568

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<210> 6440  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220079g04d1

<400> 6440

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agctaataaa gcatatgctt aatggctaaa gttcattgaa tgcaaacaat cgtatcattt   60
taacactgaa aaatgggaac atctggaatt ttatatgtgt caataaaaat taaaagctt  120
ttgatgttta cagtggcata tataagattt cttcatccta tttagcaatt agtatgaatt  180
ttccgagtcc aatgatcata tcattctgtg attatcaaca tactgaagaa gttctgagcc  240
aagttcagag acccaattca ctgcagtgcc aaagaagagc tcccagaacc acagatccaa  300
tgctaagact gatgaaaaga tgagcaatgc caaggtctga tagcggttca atggccagcc  360
tgaggcctta gcaattgtct tcagaaatgg aaatgaatca gtatttaggt cctttttcgt  420

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tatggaccaa gctgttatcc actgtacatt agacgggact aaatcaaaat

470

<210> 6441

<211> 599

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220079g05a1

<400> 6441

tcgttttcat actttattcc tttaaaaaat gtttaaaagg agcaaacatg agtgaaaatc 60  
cttttcgact agactgttat taacgtgtaa gccaccggca gattttaaaa ttctctttta 120  
taaaattaaa gtatctctat ttatatgaaa acgattataa aaaaattaac ataatggaca 180  
aaatagttta agcagaaatt aattcatatc tactcacaat gatcctatca aatttaagaa 240  
ggattaatth tagtgaaaga tacttatata taccaaaaac aaaagttcgt tcataaaata 300  
gaagtaaaat attttaaaat taagtgtatga taagtactat cacattataa agaatagggt 360  
ctacaaaaaa aatgaagtat aggtccgttc ttgcgtcaag tcaactatcc tcaatttcat 420  
gaaaaaaata tatactaatt gagtgtctct aaaatagata tgtgagttat acttattttt 480  
taatgtaatt taatgtacat cttgattaca gatttttatt ttctgggtatc tacaaaattc 540  
ttttgtcatc ataacaatgt ataataatca ctggtttcgt taataattaa cttttatta 599

<210> 6442

<211> 537

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220079g05d1

<400> 6442

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cccccttcg tgtctgtctt gtacagttgg gttacattaa ataattgagg aatcttcttc 120  
aacatcaagt tgagtgtgaa attaaggat tatgtacatt tttaactgca agtggtgttt 180  
tttaaaaaaa gcaaataaga atttgtttat ttttaatttt agtatatact ggggaataatg 240  
agatttgtct tctaggctgt gttcggtttg caaaagatgg aatgaattac cgggtggacgg 300  
aatgaagta tgcgagtttg gttgtgatga ttttagagaa agtaaagtta caagttgtga 360

gatccgtaac atcaattttc tttctttccg gttgtagtaa aattattttt ttaggccaca 420  
 aaataaattt gtaagaaatt aatnttttta agaatttttt tctttgatta tctaattatc 480  
 agattatatt taggcaacan aaattatttt tttagaacaa aaatctagat tctttct 537

<210> 6443  
 <211> 468  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079g06a1  
 <400> 6443

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 actacaaagt cactgagttt agtgtttcgc caaaaccaat ggatgatgat attgtaggac 120  
 tcggttttcg tccaacagaa gaagaacttg tggactttta cctcaaacac atgttgctcg 180  
 gcaatgatcc ccgtgcccac gtcacccctg tcattgatct ttgcatgtg gaaccttggg 240  
 atgtaccagc cctgttgatt tcaagtattc aagaagtaaa aggtttaaca ggacaaccaa 300  
 gtgtggcttc tggaaagcca ctgggaaaga ccgtgacatt aggacagggg aactaacac 360  
 cgtcattggg actaagaaga ctcttgttta ctatcaaagc cgtgtttcct gtggtgtcaa 420  
 gtccaactgg gttattcacg aatatcatgc tgttacctt catgaaag 468

<210> 6444  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079g06d1  
 <400> 6444

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 tatagaacta tttatatttt ataacatata ctctaaata gctgccagta atccattaat 120  
 ggaactaact tagatttttag ttcccatcat acgaagtgt ctagtcttca ataatttgt 180  
 cttcaatgac tctgattggg tggagctatg gacaaaatta tgcttatttt cttcattgat 240  
 aactatactt tcaccggcta agattgaatt caggaattca tcttcctttg tagtttcaaa 300  
 tggattccgc ataacattgt cttcatttct aaaataggca ttgttaaag catagtttgg 360

aaaggatgct ccttcctgct caatactagt tcgagactgt tgtattggag agaagcaat 419

<210> 6445  
 <211> 483  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079g07a1  
 <400> 6445

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 tcagaactgt tcggctgcag cttccttagt ggaatgtcat ggcttgcgct taacagctgc 120  
 tgatgcacgt ttctgcaaac cactggatcg gtccttgatt cgcagcctgg caaaatcaca 180  
 tgaggcttta atcacagtcg aagaaggatc aattggagga tttggttctc atgttgctca 240  
 gttcatggcc cttgatggcc ttctagatgg caaattgaag tggcagccaa tagttcttcc 300  
 ggatcgatcat atcgatcatg gatcacctgc tgaccaattg tctctagccg ggcttacacc 360  
 atctcacata gcatgcacat gcgctcaatg tactatgaca aacaagagag gcactatagg 420  
 tcatgtcata acaatattca tgggatcaag ttttcacttc acacgatgta caaaggctaa 480  
 cat 483

<210> 6446  
 <211> 478  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079g07d1  
 <400> 6446

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 acattacttt ttcattattac acatggtgaa tcatgttata ctttgtacat cgtgtgaagt 120  
 gaaaaattga accccttaat atttctatga catgacctct agtgcctctc ttgtttgtcc 180  
 tagtacattg aacactgttg ctgctatgtg agatgggtgta agaccggcta aagacaattg 240  
 gtcagcaggt gatccatgat cgatataacg atccggaaga actattggcc gccacttcaa 300  
 tttgccatct agaaggccat caagggccat gaactgagca acatgagaac caaatcctcc 360

aattgatcct tcttcaactg tgattaaaac ctcatgtgat tttgccaggc tgcgaaatcag 420

ggaccgatcc aatggtttgc agaaacgtgc atcagcaact gttaagcgca ngccatga 478

<210> 6447

<211> 499

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220079g08a1

<400> 6447

tgacacaca aacacaacaa catatggagg tgctaagggg gcaaaccata gcttccaaat 60

ccaaagatgc tgccatccca gccatgtttg ttagggcaga gacagagcaa ccaggcatca 120

caaccgttca aggggtgaac cttgaggtgc caattattga ttttagtgac ccagatgaag 180

ggaaagtggc gcatgagatt ttggaggcaa gtagggactg gggcatgttc caaattgtga 240

accatgacat acctagtgat gttataagaa agttgcaaag tgttgggaaa atgttctttg 300

agttgccaca agaggaaaaa gagttgattg ctaagcctgc tgggtctgat tctattgaag 360

ggtatggcac aaagcttcag aaagaggtga atggcaagaa aggggtgggtg gatcatttgt 420

tccacattgt gtggcctcct tccttcatca actacagttt ctggccccaa aaccccnctt 480

cttacagggg aagtaatga 499

<210> 6448

<211> 466

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220079g08d1

<400> 6448

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aacattagtc acagatctta tttaatctac ttcccacaag tcacactttc attccataaa 120

ttaaataaca aaacagagaa accatgagct ataattatct cgtagtgcc acttcattca 180

ttgagggatc ttattgagct tacaataagc ataatccttg tatttcttgg ttttgtattt 240

tggtggattg tcttggttaa ccaactttgg gtgaggacca acttcttgtt cctttttggg 300



cagtatcaga aattctgaaa gtcaatattt agtcttcata gatgcatcat ttacagtttt 240  
 atacttgagc cttgaaaagt gactgcaccg gtttcggaga caaatttgcc acactcctga 300  
 acttctgctg gttatatattt tcgcgtatag aattcaga 338

<210> 6451  
 <211> 607  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220079g10a1  
 <400> 6451

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 gacgagagag ggaagggaga gaggaatgc attttgcaca tctaggaaat attgctgata 120  
 atccgagtcg tgtaacgatg agggcatggt ttgcctttgg ccacttgata ccatttttca 180  
 aactttccat agccttagcc aaagctggtg ctcatgtctc cttcatatcc actcccaaaa 240  
 acattcaaag gttcccaaaa attccttcga ctttatctca tttggttcat tttgtggaac 300  
 ttcccttacc atcattggac aatgatattc tgccagaagg tgctgaggcc accgtggaca 360  
 ttccatttga aaaacatgag tacttaaagg cagcattaga taagctccaa gatgctgtga 420  
 agcaatttgt ggccaatcag ttaccagatt ggataatctg tgatttcaat cctcactggg 480  
 ttgtagacat tgcccaagag tttcaggtaa agttaatctt attttctatt ttatctgcta 540  
 ctggaacaac attcatagta ccaccaggta caaaggcatg tcacttatct ccagaaagtc 600  
 taacagc 607

<210> 6452  
 <211> 515  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220079g10d1  
 <400> 6452

cagagagagt gtcttattga attcaaaaac aggagttggc tttagttacc cttacaagat 60  
 agaaaacaga tgcaattatt gaaccacgac ttaaagagta ggactttatt caacaaactg 120

atgataaacc taaaataaga cacagtaatg atcctcttca acatcatatt ggtttctga 180  
 ttccattctt aagaaactgt acaaatgcag ctacgtagt atcctgggtgc agcttcaagt 240  
 ttcctacaat tgcagcagct tctcttgtat tatttctgat cttctttcct tctccaata 300  
 cncatggctt gtctaaggga tgcggcaatg tcatttctag tgaatgatcc atcttcattt 360  
 cttttcactt caatggctaa tctcttttcc accaaaaacc ttgcattaag aggttgctct 420  
 atataaaggg taataaacna agtgtattcc caactggaag gttttaatga cagaacccca 480  
 gncagagtga aacaaagatc cttcaataga tgaat 515

<210> 6453  
 <211> 646  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220079g11a1  
 <400> 6453

gccccgcccc tgggtgcgata gacatagatc cgatgggaaa acagttcaaa gttgggagan 60  
 aagatcgagg anggtaaaga gactgttggt aaagatttta cccatgacac tcttctgct 120  
 ccttattctg gtctttcacg cggcgggggc caatggacag tggcagctcc tccacaaaaa 180  
 catcggcatt gtcgcatgc acatgcagct tctgcacaac gaccgctca tcattctcga 240  
 ccgcaccgac ttccgactct ccaacctaac cctccccgac ggaagatgcc gcaacaaccc 300  
 aaacgagttg gtcgtcaaac ggcactgcac cgcgcactcc atcgaatacg acgtcgcagc 360  
 caacacattc cgcgtctctt ttgtccaaac caatgtctgg tgctcctccg gtccggtctc 420  
 tcccgcgga acattagtcc aaaccggtgg cttcaacgac ggctaccgtg cggtcagaac 480  
 cttcaccccg tgccgctcgt ggcactgggc agaagttcag catggactcg cggcgcagag 540  
 atggtacgcc accaatcaca tcttgccaga tggacgtcaa ataattatcg gaggaagaag 600  
 acaattcaac tacgagtttt accccaagac acaagccaag aatact 646

<210> 6454  
 <211> 496  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079g11d1

<400> 6454

gcaaagaaat atccatgaac tataattaca aacttcctag ggtattattht acacgcccc 60  
 taggccataa atggctttat ttgaatttta tcttcccata tcttacagtt taaataactca 120  
 ctcaagaatc tgttcaactcc cagacattca caacaataaa taacttgaat aaaaagaaca 180  
 tatacgaacg aagttgtcga gcaggcagag acgagaattc acaatttcac accatctgga 240  
 cccaaatacc gtggcttgga acttcttgat ggaccacaaa cagcagatag aaacccggtg 300  
 gcgcaagaac agcggaagcc ggcgcggtta cttaacctcg tgcgttgatt ctccaacccc 360  
 actaaatggt gcggcttcag caccaacagc ctctgattca tggagaacga gtgcgtgtta 420  
 aatggcggn cccagcatggt aacagacacc gaatcccaa ccaaagtcgc gctcacctta 480  
 aaccgaagcc ttaacg 496

<210> 6455  
 <211> 678  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079g12a1

<400> 6455

gtacttactg cccaatggta gcctgnctcn ngacaaatag catgtcagca tcaagnagat 60  
 ctaggtcnga ngttggangc nnanngccct gaggtggaag taggattgga gatgtattht 120  
 gatataattat tgatttttat gtgctgagag acccaatact cttacggggg gccatagagg 180  
 gagagagaag ggatggttgt agtgggtcaat atgatcaaat ttgcaatgca cgattacctc 240  
 gagcacttga tccccactct gctccatcag aagagcttht cacttctttg ggatacatgg 300  
 tgcaacttct aaatcttggt attcacaact tggctgcccc agcacttcat aactcagggt 360  
 ttgcgggttc ttgctctcgg atatggcaac gagattctta ttgggatgca cgctcttct 420  
 caaggagcaa tgaatatccc ctttttatac ctggccaaac ttattgctct actgacggag 480  
 aaaactcatg gtctgagaga agctcaagca atthtggagt tgcttcggtg gaatctgaga 540  
 ggaggcatcg cctagattca tctgggagta ctagctctaa ttattctttg gcttcttcgc 600

attctgttca aacacacaaa gatttgcaga acggaatttc acttctaaaa gacagcgtag 660  
tctgcatcac agcttact 678

<210> 6456  
<211> 404  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220079g12d1  
  
<400> 6456

aaaagaaata aaatgaatga ttattttctca aaaagtattt agcgaacata cacttatgtg 60  
taaagggtgat attacttact gagcccatat caatgggtga attcttggtta actattctga 120  
gaagaaaatt ttgttgaaag gttgcaaatt aagatcactt cccttttagca tctatgaaca 180  
tggtctcgagt ccagtgtcaca acatcctcac tttgcatggg tgggggagga aaagtgggat 240  
gctcaacaat atcccaccct tcaattaggc actcattttt gccgtcagat aaatcagcgg 300  
cataaagaaa actaccagta gaacttggca gataattttc aatcttcggt gtgggcacag 360  
aatgtgcact ttcagcaaag tagttgatga aatagccgaa ttca 404

<210> 6457  
<211> 487  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220079h01a1  
  
<400> 6457

agcaaacaga gtcttcccca caccatcctt tcccccaaga gaatgagccc gttcatgctc 60  
ctctaccacc gaacacaccc cgccaccacc gaacgctaac gcgcgcccct tacttaccct 120  
gcgcctcggc actctgcctt attccccctc cttcataagc tccgcgttaa ccgtcctctc 180  
tctctctctc tctcgatcg gagcgagact ggcggctccg gcgttggggg cgtaggggtt 240  
agggttaggg tttccaagag atgtggtatg ctccaggcat tgatgaatct gctctcgctg 300  
cgttggaagc catttgccg cgatgctgct gatcgaatcg attccatcgg agataccgga 360  
agataaggcc tagacggctt gctttggctc cgcgacggcc gaaaatatgg ctctggcgat 420  
ttcttcatgg ccgctggtca cgccaaccag gttctcggag accatagcca gatcgagtct 480

ggtgctc

487

<210> 6458  
 <211> 524  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220079h01d1  
 <400> 6458

aaaattcaaa taatatgtta taacttaata aattatcgtg cctcaagaat ggcattattgt 60  
 agccaggtac ctagcaaacc aatggcgtat gcttcaggta tcggtacaag actgcttaca 120  
 atgatacaag tcagtgatcg agagcacttc gaattgaaag tgccgggtct agcactgtgc 180  
 ctctggaaat aaggtcgtga tttaagaata aaacaataac ggatatatca tcatgaaaat 240  
 ggcgtcgaac cttcttggtca atcttacgga ggtctgaata tcgcatttct cgttttcttg 300  
 ctgcttcgtg tagagcagcc ttgataagtc tcttggcact acccgcatgt ggattgctgt 360  
 ttacaatatc cacggctttc tcattactca agtgctccca taaaccatca gatgcgaata 420  
 taaggaagga atcatttggg tggagaggat gagaaagaat agtgggatta gcactcaaga 480  
 tgggcatgtt cattgggttca cgaagtctga attttgcatt aagt 524

<210> 6459  
 <211> 561  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220079h02a1  
 <400> 6459

caaattaaag ccaacattaa ggtttcatca actgaaacag gagttatatt tggtaacata 60  
 gtctatgaga catcttctaa tggtcttgag agaacagtta ttgttctaaa tgatatccat 120  
 attgacatca tggactacat ttctcctgca tcttgtgctg atgtggcatt cagaactatg 180  
 tgggctgagt ttgagtggga aaacaagggt gctgtaaata cagtattaca agatgagagg 240  
 gacttcctga accacattgt caagtctaca aatatgaagt gcctgactcc accatcggca 300  
 ttggaagggg attgtggatt ccttgctgca aacctttatg ctaagagtgt ttttggggaa 360  
 gatgctttgg tgaatgtgag cattgaaaag caagcagatg gtaagttgag tggatacatc 420

agaataagaa gtaaaactca gggaattgcc ctacgtcttg gggataagat aactttgaaa 480  
 cagaagggag cgccttaata agagcaaagc cccctgttcc tcttatgcnt ccttcgtttg 540  
 tatgtcttat caacttcgtg t 561

<210> 6460  
 <211> 522  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079h02d1  
 <400> 6460

acttataaac gaaactggag gtatcattta tcattaatga ttattatccg aacatatgta 60  
 tgcaaggcca accagaacaa ttgtcactag attgattctc atatcaatat acgggggtccg 120  
 gccccatgtg tagaaaaata aaagatgggt aataaggatt tttcttaagc aatatccaag 180  
 gaaagaatcc cgaccaaatt gaaaattcaa aaggaaaaaa aaaataatac taacaagcgg 240  
 gctgccacca aaagccttaa aatttgaagc aataaccaac cttgaagtta gccccaccg 300  
 gaagctaccc caagttgata agacattcca acgaaggaaa ccttagagaa aacagggcac 360  
 ttgctcctat taagcggctc ccttttggtt caaagttatc ttatcccaa gactgagggc 420  
 aattccctga gttttacttc ttattctgat gtatccactc aacttaccat ctgcttgctt 480  
 ttcaatgctc acattcacca aagcattttt cccaaaaaca ct 522

<210> 6461  
 <211> 515  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079h03d1  
 <400> 6461

gaagaaaact cccaagtatc attgtctgat tgacaaattg tatctggaac tgtttttatc 60  
 aaacatttac atgctctgag tagaatgaac atcctatatt ttctcttttc acacctacgg 120  
 ctctcattta tgctaatacca gctattatgg atggattagg ttcccatcc cagtggctga 180  
 gggagctgag atgggactcc cagggtctaa atccaataag ccttcttatt gactgtgcca 240  
 aatgtgttgc atctggaagc atcaagaatg cagatattgg ccttgagtac atatctcaga 300

tttcatctcc tgatggtaat gcagtgcaaa ggatgggtcac ttatttcagt gaagcacttg 360  
 gttacaggat aataaaaaat ttgcctgggtg tatataaagt ctctcaatcc atcaaaaaca 420  
 tcattatctt ctgaagatat ccttggttcag aaatacttct atgaactgtg tccatttttg 480  
 aagttctcat acctgatcac aaaccatgcc attgc 515

<210> 6462  
 <211> 522  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220079h04d1  
 <400> 6462

acaataaaaa atatattatt aagaataaag aagttcaatt cgagtttgaa taaagttgag 60  
 ctagtgtaaa aactgtatta aacaattctg ctatgtcaaa ggagcattac aattgactag 120  
 catatcatgt ctgtcatctt atgcacacct ccatagatct agctatggct gagtatttgg 180  
 tctacgaagg aatggaataa accccctggt cagttttaaa ttatctaagc caataacaca 240  
 ttctgcttca ggagaattta cgatcattct cgaaggtgct tgggtcacggt cacaacagct 300  
 tgccttcttg ggtgtccttt tccttataat agaaggaaca ttctcatagg tcattgctaa 360  
 gtttcttagc aaagtttctg ggttgatgtc gcctgtgtca ttcttgagta tagacgttgg 420  
 nggagtacaa ccgttattgt atgcacatgc caatgcatgt gtgttttttg acttagacat 480  
 tcaactgaatt catctacact atgtggcata gtgttggttg ag 522

<210> 6463  
 <211> 544  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220079h05a1  
 <400> 6463

cttaatccct cacaagctga gaaagaagaa ggaattattc ctcttacgga ttcattgccc 60  
 attatttctc agtctacat tacgcattcc cttaaagtgg aaggtcttcg aggcattgta 120  
 actgtgcctg ccaagctgga gtctacatct ctctgttttg cctatggagt tgatctattt 180

ttactcaga ttgctccttc taggacttac gattcactaa ctgaagattt cagctatgct 240  
 ttgcttcttc taacaattgt tgcacttgta gctgcaatat ttgtcacttg ggtattatcc 300  
 cagaggaaag atctacaaga gaaatggaga tgatctgtcc tccatttttg ccttataatt 360  
 tctaattctg aagttctaag tagttatata tctgttttct ttgttagtta ttagttcgga 420  
 ttttgaaatc tttttagct tgaattgcaa aagtaatgca gaattccatt aggttgaatg 480  
 gaggatgttt tcattttaat gatgtaaatt gaggagtacg aaagataatc atgaaattcc 540  
 gatg 544

<210> 6464  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079h05d1  
  
 <400> 6464

gtcaaacatc ggaatttcat gattatcttt cgtactcctc aatttacatc attaaaatga 60  
 aaacatcctc cattcaacct aatggaattc tgcattactt ttgcaattca agctacaaaa 120  
 gatttcaaaa tccgaactaa taactaacia agaaaacaga gataaaacta cttaaaactt 180  
 caaaattaga aattataagg caaaaatgga ggacagatca tctccatttc tctttagat 240  
 ctttcctctg ggataatacc caagtgacaa atattgcagc tacaagtgca acaattgtta 300  
 gaagaagcaa agcatagctg aaatcttcag ttagtgaatc gtaagtccta gaaggagcaa 360  
 tctgagtaaa aaatagatca actccatagg caaagacgag agatgtagac tccagcttgg 420  
 caggcacagt tacaatgcct cgaagacctt ncactttagg gaatgcgtaa tgtangactg 480  
 agaaataatg gg 492

<210> 6465  
 <211> 545  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220079h06a1  
  
 <400> 6465

gagaaaacaa cattgcccga aggccaatta cctaacacag ggaagaaaac aagaaaagaa 60

aaaaaggttt catcataatc ataagctgtt aggcattggcg actggattcg acaccgcca 120  
 tgagaagaag aagaagattg ccgttctgag cgtgtcttcc atcctcctgg tggcgatggt 180  
 ggttgcggcg gccgtcggca taagagacgg cgccgaagtg gtcgaggaag gtggcgacac 240  
 gatcgcgaaa tctcaaagga accagcaagt gatatgcgaa tccgcggaat acaaagaaac 300  
 atgccacaag agtctggcca aagcctccgg aaccagcgat ctgaaggagc tcatacataac 360  
 cgcgttcaac gccacggccg aagagatcgc gaaccaaatac aaaaactcga cgctctacca 420  
 tgaactcgcc accgaccaca tgacaaaaca ggccacggac atctgcagga ggtactaagt 480  
 tacgctgtcg acgacattcg ccgatccgtt cacacgttgg aaaagttcga cctaacaag 540  
 ttgaa 545

<210> 6466  
 <211> 493  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079h06d1  
 <400> 6466

gttaaaaaag tatcttgctg acatttcttt tcttctcgta gattaagaag gaacaagcag 60  
 cagtagccta gctagccaag agtgaaatta aaccggtgag aattgaaatt gagatcaaat 120  
 tccaaggaa tcggtaatat agctagaata agtctgctgc aattactagc cagcatgggg 180  
 aaactaacia gtgcgtgaag aaaaggaaaa ctgaattaac aatgagtag cactgcatca 240  
 tcacttttcc tttccttaaa cactgccaga catatatata acatgtcaaa aaggctctga 300  
 gatgatgacg gagcgagcat gcagggatat atggctacat agtctattag ttaaggactt 360  
 ataaaaaaag accatgaaat gaaatcagat gaattaagct ggtgggaatg gcagcgcata 420  
 agtgggccag ggaatagggc accccagacc tatgatcaag aatcacgctc agtcgaatag 480  
 cgatctgaaa gaa 493

<210> 6467  
 <211> 529  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079h07a1

<400> 6467

ccacttttctt caccctaaacc tccttccctt cccactctct ctccctaaacc ttcatagacc 60

catttcgccc catccccgaa agtcaacgta tttgcgaact tcccggcgag gaggcacgtg 120

gggggttcgag ttctgaacgc gctgatcgaa ccagacggag ggaagctggt ggagcttctg 180

gtgagggata attcagaaaag agacttgaag aaggggtgagg ctctttctgt gccgaggatc 240

aagctttcaa ggattgacct ggagtgggtc catgtcctca gcgaaggatg ggccacaccc 300

ctcagaggct tcatgagaga agccgagttc ctccctaaacc ttcatctcaa ctctctccga 360

ctcgatgatg ggtcggctgt gaacatgtca gtgcccctcg tgctggctat tgatgatgcc 420

cagaagcata agatcgggga taacctaaagg gttgctcttt tcgattccaa ggagaccctg 480

ttgcaattct caatgatgtt gagatttata agcattccta agaagaaag 529

<210> 6468

<211> 473

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079h07d1

<400> 6468

gatctaaacca aatcctcctt agcacaacca cattcattat attacagaga gttggcatgc 60

acaattgcac cataagtgcg agaggctgtc taatgccata catacagaga gaggcaatgt 120

atctgtgctt gtgcctcccc agagtctttaa ttattattat tattattaaa ttgggcccagg 180

agtatgtatc ttagcaggag aatacataaa gcttaagggt tctcccaatc atgagatata 240

cattataata caagattaag ctggaacagc ttccggcact ttgccattgc ttgagagtac 300

taagctatca tagtattcaa ccagtacctt ccaaccacca gggcacataa atccatcagg 360

agggtcttct ttggctcctg ccagtgtgag catctttgtg cctgatatga acgggaagtc 420

ctgaggcctt gaagggtcaa agaatgccat tttaccctga gtcttctcat atg 473

<210> 6469

<211> 538

<212> DNA

<213> Glycine max

<223> unsure at all n locations



<223> Clone ID: jC-gmf102220079h08a1

<400> 6469

agagcagaga tctagcgtat tctctcgctc tttctttcac tgtcacagag ccacatccat 60  
 gggcttccca gccaacggcg cctctcgggc ccagccccta aacttcctca tctacggccg 120  
 cacgggctgg attggcgggc tctctcgctc cctctgcccg gccagggca tctccttcca 180  
 ttacggctcg ggccgcctcg agaaccgggc ctccctcgaa accgacatag ccctcctcaa 240  
 gccctccac gtcttcaacg ccgcccggcg cacgggcccgc cccaacgtcg actggtgcga 300  
 gtcccacaaa gtcgagacca tccgaaccaa cgtcgtcgga accctcactc tcgcccacgt 360  
 ctgccgcgac cacggcctca ttctcatcaa ctacgccacc ggttgcattht tcgagtacga 420  
 ctccgatcac ccnctcgat cgggtatcgg cttcaaagaa accgactctc ccaatttcac 480  
 cggttctttt tactccaaga ccaaggcaat ggtagaggat ccgctgaaga actatgat 538

<210> 6470

<211> 456

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079h08d1

<400> 6470

aaaaacgaca agaaatttat tcaatcacga gcggtaaaaa tacaacatac aaataaaaaat 60  
 aaggagagag gacatctaca caaaatccac acaaacttaa atcaaacgag gacaataata 120  
 ataataataa taatgatgat gataaaaatg agaaaagctt gaacctttag acttgagctt 180  
 taaccttctg gtttggtctg aagacatact taataagaga atccttaata gacaacagtt 240  
 ctggaaattc cttcttcaat ttggcagcgt caagctcatt gttgctcctc ggagcaacaa 300  
 tcaccttggc ctgttctga gagtgaaggt tgttccaggt gaagttcggg tcaacataat 360  
 ctctgtacat ctccaagatt tcattgtgac taaccactct gggtagtaa agttccagat 420  
 cccagtcaga ttcctcttcc ccacttcaat tgaaat 456

<210> 6471

<211> 593

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079h09d1

<400> 6471

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 gactagctga ctaactggcg gccgcccttt tctttttcaa ctatttttaa tttaactcat 120  
 ttcttggtga aaaaaggaca aatgacatga attagaagcg catttttatc caccacatta 180  
 ttgggctcag actaagcaaa cctaaaataa aaggactcac gaaatatata actataaaat 240  
 ctcacaaaac aatctatgca aacaaaatca cactgtctac ttaatttcta aggctctaata 300  
 ttaaccactt tttttgggta cttcttcata gctgcactta agcctgtata atgcaattct 360  
 agtaataaca gcactttgtc tgtgatgatt tgtatcttct tgatgatgga tggcaatgaa 420  
 atcttgata ggactttttt ctttccgaaa tgaaaatgaa ttgagcttat ctagctgtag 480  
 atgattttgg tactgcgttt gttgcttgaa aaatcagcct cccttgaagt attttttttag 540  
 gagaaccttc aaaattttgg ccacaccttg gtgaaactta agtaacttga gaa 593

<210> 6472  
 <211> 652  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079h10a1

<400> 6472

tgcccaagat gcgcattgtc attgaagtca catangnana ccaggtnenn gttggnngnn 60  
 nngnccngg ggggggnttg ggtttgact tngttgttg aggttctgga ttctcagtgt 120  
 ttgcgaagcg ctgcatcatc ctttggggaa gaatggatca tcaagggcat agccagaacc 180  
 catctatggg ggtggttggt agtggagctc aattagcata tggttctaac ccatatcagc 240  
 caggccaaat aactgggcca ccgggggtctg ttgtgacatc agttggtacc attcaatcca 300  
 cacctgctgg agctcagcta ggacagcatc aacttgctta tcagcatatt catcagcaac 360  
 aacaacacca gcttcagcaa cagctccaac aattttggtc aaaccagtac caagaaattg 420  
 agaaggttac tgatttcaag aaccacagtc ttcccctggc aaggatcaag aagattatga 480  
 aggctgacga ggatgtagg atgatatcag ccgaagcacc agtcattctt gcaagggcat 540

gtgaaatgtt catattagag ttaaccctgc gttcttggaa tcacactgaa gagaacaaaa 600  
 ggcgaaact tcaaaaaatg atattgctgc tgcaatcacc aggactgaca tc 652

<210> 6473  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220079h10d1  
 <400> 6473

caagtaaaaa tcttgctatg caccagtaaa taaatattat catctgatga cctgtaaatt 60  
 taaacatgaa aaataccatt ttatccagct aaatcaaaga taagggttaag ttttccttag 120  
 cacattatct acatatgtta atagtctgca ttgcatgtaa actatcagct acagcttctg 180  
 ctcgcaatgt agtatggatc ttcccaacca ttcagtttga cattcacaac tgattccggg 240  
 gcctgggttat cttaatttcc acgacacatc agctaattgt ctggggacaa ctgtcgttgg 300  
 tctggtggct gtggccacat ttgtggtgcc atgtaggggt gagactgctg agcatacatg 360  
 tttgggtcca tcacaggctt acccat 386

<210> 6474  
 <211> 609  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220079h11a1  
 <400> 6474

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 gagataggnt cgaggacaca taagtaacat aaccaatggc atcgctgca ggagccaatt 120  
 atcgtattgc acgggtctct gctcatcttc ggctccaaa tttccaggaa gggagtgatg 180  
 ttcttcttaa gagtgtgag tgcagagcaa aggggtggcg acctggattc aaagttgcaa 240  
 ttccgggggc tgctggggga attggtcaac ccctttcttt gctgatgaag atgaacccat 300  
 tggcttcagc tcttcatctt tatgatgttg tcaacacccc tgggtgcact gctgatgtta 360  
 gccacatgga cactggtgct gcggttcgtg gctttctggg gcagcaacaa cttgagagtg 420  
 cactcactgg catggacttg gtaatcatc ctgctgggggt accaaggaaa cctgcgatga 480

caagagatga tgtattttaa ataatgctg gaattgagag gaccctatgt gaaggaattg 540  
ccaagagctg cccaatgca attgtcaact tgactagtaa tccagtgaat tccacagttg 600  
ctattgctg 609

<210> 6475  
<211> 375  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220079h11d1  
  
<400> 6475

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caaaaaaaca aagctcagaa caaaaggaga aaaaaaaaaa ataaggacaa aacaaaacat 120  
tacacaagga acgaaaatat tagaaaccaa aaccatatac accttaccac aataaattgg 180  
gggagaaaaa tacaccctgc ccggaagcct tctgccccct ataaatttgc cttgttcaaa 240  
ccaattctac cattctcaat ccagggaccc aaccatttaa accctggcgc atcagcacca 300  
cctaaaccta ccttgggggc ccagaaagga aaatccctgc cccggaaatt aaaactagca 360  
cactttaata accca 375

<210> 6476  
<211> 381  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220079h12a1  
  
<400> 6476

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ttcatgctcc cgctcgagaa gaaagatgcc tatggaaggg agtggttgat ttctcttcag 120  
ccttagattc attttcaggg ctttcgcata accgacaacc aatgtggacc atagacaaag 180  
aggactattg ctatgtgggc agcatcactg agccacactc agtacttggc tccagaagaa 240  
gccttagccc tcccacttcc tactccacaa tgtctacttg tcttggcagc agcaacaaca 300  
gcactagcaa ggggtggtggt ggcacctcag ccaacaccac caacaacgga acatcacct 360

gagactacaa catcaacaac c

381

<210> 6477

<211> 427

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079h12d1

<400> 6477

agctaaattg ttcgtttctt actaagcaat ttgctttgtg ttcaagataa caaagaaaca 60

gttaccatc tttagatgat gggaatgggg aaaggcataa ttactacca tgttcaaagt 120

gacatactag taatattaga actacagaat ggtagattcc aacccatgca gttaagaaaa 180

catttggtg tggtatctcat caataagcct aaattacaca aacaattaca taaactgcaa 240

tgtaagttac catgcacctt taaaaatata aggtaattag cttctgctgc tgctcctcag 300

tcctcagcat ctccaagtag aaactgagat gagttctttc ttctgccagc atagaacaag 360

tgatgaaggc tttctcttca catgaaatcc cctacagggtg ccctctgaac tagacactta 420

gcttgag 427

<210> 6478

<211> 522

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080a01a1

<400> 6478

agggaagaga aaattaaatg atagtagaat aaagaggga ttcaaaaaag cagtgtattc 60

aataataatg ctctaggtaa atataaaaca gctcaggatc taaacacaca aacatggcat 120

cttttagcac acatataaga tgaattgcaa gactatcata tctttcagga tgttcccagt 180

tcctgttca agtagtcaat gaacattctt tttgcactat ctgcatcaga aggaggtggt 240

ggcccactta aacttgtttg ccctgtcaat tttatgaagg tacggcgcat cctacgaagc 300

tctggaagcc caactgacct tgaaatgtta attacaggca agtctttccc tatggaaact 360

ccattaagtg gtcctccaag agcttgagat tgtgcttcta ctatagcatt tgtgacctct 420

tgtgttgctt tgtccaactc atagagagaa tttgcatcag aaaaacgca ggtttgagtt 480

gcaatagttg gttgtagtat cttaacatcc ctggttttgg ag

522

<210> 6479  
<211> 380  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220080a01d1

<400> 6479

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tgttatgaga gtacactcgc ctagatacca tggatacggg gacacaggcc ggcacatatc 120  
gcccaggcaa acttttttga tggaagatag gcaccacagg aacctggatt atgtgtccct 180  
cgatatatgt ttttatcgaa caataggctg ctaatcgccg gggcatttat tgattctata 240  
acctgtctgg agtcccaaaa ctgtggcaat gtttgccac cctagattca ctagagccta 300  
ggaatgaacc ttatgcgcct ggggcctcac aaaaagggga actgagcggc gtgccatggt 360  
atgggtggtg gattatttga 380

<210> 6480  
<211> 516  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220080a02a1

<400> 6480

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aaacctcaac acgacacaac tctcactcac ccctccaagc cagtgcgaaa gcgcacccaaa 120  
caaaatttca taatatggga ggaaaggaaa attaatatcc tttaaaaact aaagaataac 180  
acaagaaata attaattaaa aaatgggggg aaagtgtctc ccaaaaaaaaa aaacgagaag 240  
gcactcagca tcctggtaaa ggcaatggac ttctggccga cccaaacagc tccacttaaa 300  
actgtgtaac aggacatttc ttcaaaaaca tacttgataa gtaaaacaag taaaataatt 360  
gcataaaatt ttcaatttgc tcattgtttg cacgatcaac tccgttgagc aaatgcagat 420  
aatgcatttg catgtgcagg tgggagattg ctcagaagag gttgaatttg ttgcccatat 480  
aatgaacata gatgagaaaa agctctgcct actaca 516

<210> 6481  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080a02d1

<400> 6481

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 agtctaatat catccatgta acgacgaaca tctgatccag gaaaaatttg tctctcaagc 180  
 catagcctta aaatctgcgt tctagttgtg gttgctacaa gtatttaagt gtccaattcc 240  
 tgctgttgca tagtacgcac aagtagtgca aaaatataag caacaatacg cattcaccta 300  
 cgtagtcaca catgattgac aagtgagtat atgtgcgtta caagacttgc ctttaattgat 360  
 gaaaatactt ttttccaaat ctttgacaaa tgccttagca tgaacatcct gattttagc 420  
 acccatttca attaaggaag atgtcattga ggcataatct tcaatagcag tggtcct 477

<210> 6482  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080a03a1

<400> 6482

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 ttttacaggg gaaaaatcag gttgaacca ctattgattt tgatgaaggc tgttggcatt 180  
 caacttaaga acgggttttgc cgttctctct taaattttta aggggctgaa agcttgtttc 240  
 aagttggcta ctttcttgaa tatacatatt ttgcattgga aaaaagagag acttctcttg 300  
 gggcccaagg gacaattcta acttcaatga atcctcactt tggggctggt catgcctgaa 360  
 tgtattctct aatccaaaaa acttttgagc gaacattttt gcttctttca gactcttctt 420  
 tatagcactt aatctacctt tgg 443

<210> 6483

[illegible]

<400> 6483

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| <210> | 6484        |
| <211> | 509         |
| <212> | DNA         |
| <213> | Glycine max |

<400> 6484

2880



<210> 6485  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220080a04d1

<400> 6485

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 taattgactg ctgtcaaatt gatgcgtctt aatagttaca taaactacta cgaataanaa 120  
 tgggtctaaaa accctctact gtcacgagag ttacttgccg agcagaacat gaaagaagac 180  
 tgcaactgct tcagtcaatc atcaactaca aggttcttca ttttggattc gagttcatct 240  
 gcaccacctt cttcatcaga ttcttcatca ttgtctattc catcaggggc attttcgtct 300  
 aatggaccga gcatgtctgg agatttttta aatatatcct tcaactcatc aatgccttca 360  
 tcagaaatga agttccatt aatgttcaga agtttgaaat cagccttttg caccacagtc 420  
 acagccagtt gttgagcccc agccctgctt atttggttgg cacttagatc aatttccttt 480  
 aattggacat 490

<210> 6486  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080a05a1

<400> 6486

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 caggcctata ttttcgtgct gtgagcgtac gaggcataaa aggttcactt cctcctcatg 180  
 gagctgttca gtgtgatgag aatacaccag atggaaggaa gcttacatct gcattttaca 240  
 actactttgt tgtcagactg ttatgtggag catcaattgc agaaactcaa gtggaatgga 300  
 ttgaatacaa caagggattg aagtgggtgtg ataaagaatc aagtgcacat atcacctc 358

<210> 6487

<211> 364  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220080a05d1

<400> 6487

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aagtaatata tagttctagt agagtgggaat agctgcacca atattgggct atgcatgttg 120  
cttatggacg tgatataagt aaatgaggat ggagtagggg tcactttcta tctcactgat 180  
tattatatta ttttgggcca accacaaact acctaattga agtatattga gactgcttgg 240  
atgcagagta taaatgtttt acaaaagttt ttacgataga gatggagctc ttttgtggtg 300  
aagaaacttt gaaaaacttt ctgaaggacg ctctactgt tatatgcaa taaacataa 360  
atgc 364

<210> 6488  
<211> 463  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220080a06a1

<400> 6488

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accgacagtc catgctataa aattcatggg gcggacgccg atatgctatt tgcacgcctc 120  
tatcttgtgg ctctgggctg aggaggtata aaaggctcac ttctctctca tggagctgag 180  
cagtttgatg agaatacacc ggaggggaagg aagcagagat ctgcattttt caactacttt 240  
gttttgagcc tgcacatgtg agcattaatt gcagtaactt ttgtggtatt gattgaagac 300  
aacaagggat ggaagtgggg tgtagtagtc ttaactgcat caatacttct ctccattcca 360  
gttttctatt cttggctcac acaagggcag gaccatgatt ccagcaggaa gccccatcac 420  
atccatgttc aaggatcttg ttgtagcaat ttgcaacaac tgc 463

<210> 6489  
<211> 568  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220080a06d1

<400> 6489

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ccctgacaag taaaattact ggacaaacat tgagttctat tttacagacc catagtaacc  180
tctaaacagc tgctgatacc agcaaataaa cgaacttggc tgatcactgt gaatgggcga  240
agaaaaaaat tatgataggt ttccccccaa acagatgtat gatgaacact ttacctcatt  300
catgccggcc ccacgctggc ccataatgct gacataacac tgccttcctc cgaacacgag  360
gcacacgcta aaactgcatg gatggaactg ccattcatat tagcacatgg aggggttgca  420
tgaaaagctg attgcctaca gggctcttat gtaataagct ttcgagacag ggaggaggga  480
cccgagtcac caatagactt ccctaagctc agttgagata tgccaaccag tgcattccaca  540
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<210> 6490

<211> 546

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220080a07a1

<400> 6490

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aaaatcaatg aacacacaca aaaaaataat ctagggtttc tgaataataa attcgtctctt  120
gcgttttttc gattttcggt tttttttctc tttcaacttt ttcctttccg ccaaacaaac  180
accgttcccc ctctccatt ggccattctt tcattccaag aaagcgagaa ttcaactgtt  240
ctcggattgg taccagctgg tgcattcttt tttcttcaat ttttttttcc ggaattcttt  300
ttggttccta attttatcag gagaagctga attttccggg aaaatttgcg ttgttttctc  360
ttacttgcca ccttcgccgc cggctgctac tgattcgtca acggcaactc ctacgaggtg  420
ttttgcctga tttgttgatc ctgcggagaa ggtgcttgga atagaggga gggaaaagac  480
agagggaatt gtataataaa tcccaaattt tcaattgatg aaaatttatt gtaagtgatt  540
ttcttt                                     546

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<210> 6491  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080a07d1

<400> 6491

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 gagaatgctc gtatgtcaca tcatatccaa gtttcaccaa atcaaccaac aaattacact 180  
 cattttttac gtaaatagca ataaaagaac actgcacaat acaccaattt taacgatcca 240  
 tggggaaaaa tccaaatctc atcgagtgga gcgctactaa aattctagtc gctgctccca 300  
 catttgacta gggaattgaa gagttaattc cacacttgca taacttgaaa tgca 354

<210> 6492  
 <211> 550  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080a08a1

<400> 6492

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 gcgttttttc gtttgcgct attttttctc tttcaacttt ttcctttacg acaaacaaac 180  
 accgttcccg ctcgtaacatt gttcattctt tcattccaag aaagcgagaa ttcaactgtt 240  
 ctcggttggg taccagctgg agcatctttt tttcttcaat ttttttttcc ggaattcttt 300  
 tgggctccta attttatcaa gagaagctga attttccggg aaaatttgcg ttgttttctc 360  
 taccttgcca ccttcgccgc cggtgctac tgattcgaca acggcaactc ctacgaggtg 420  
 ttttgctga tttgacgac ctgcggagaa ggtgcttggg atagagggaa gggaaaagac 480  
 agagggaatg ttataatcac atcccaaac tccaaatgat gaaaatttat gttcgttgat 540  
 ttctctttta 550

<210> 6493

<211> 486  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080a08d1

<400> 6493

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 gagaatgctc gtatgtcaca tcatatccaa gtttcaccaa atcaaccaac aaattacact 180  
 catttttcac gtaaatagca ataaaagaac actgcacaat acaccaattt taacgatcca 240  
 tgggggaaaaa tcaaaatctc atcgtaggag tgttactaaa attcagttgt tgctcccaca 300  
 tttgactagg gaattgaaga gttaatccca cacttgcgta cttgaaatgc atctccatgg 360  
 ccttgacgac gttcccttgt ccaggagcat cagcaagccg acactctcaa gcggtagccc 420  
 gaacatatac ttgctttggt gagctctctt tctccagaaa acaattgatg agatccactt 480  
 aacaat 486

<210> 6494  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080a09a1

<400> 6494

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 gaggcacata acacagggaa aaaaagttat tgcggaccac tctcaatctg aagatgatga 180  
 actgcgttca cttagcgact aggaagctga atctgttggt gaagctcagc cagatgaaca 240  
 cgaccatcat gctcaaatac agctgatgaa gacaaacatc ttg 283

<210> 6495  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080a09d1

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 agaaggcaga agctgcacaa ttgctaaat ctagtggttg acgtgtagag aacctcacia 180  
 gtatacataa agaactagct agggagaaga ttcactctgtg caagagaaga ccataaataa 240  
 agattacttc tgtcccatth ccatggcttc caaggttggg ctatggtaag agtaaggggt 300  
 aaaggtatca ccattttctc ttggttcttg attcgtaacc cgttcctcca tggcctgccc 360  
 aacaggtgat tcccgattaa tgattggatt ggttcgtgat tctccattg cccggaaata 420  
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<210> 6496  
 <211> 334  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080a10a1

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 gatagggcac gtatgcacgt caggaggatg aacttttctt cactgctgga ggaactccaa 180  
 actttgttgg ttccggaggcg cgttaggaga gaagtaatgt tgggtctaca tctgatatgt 240  
 ggtcctgtgg agagattttt ttggagctga tggctgggag cttgcccttc gatgagccat 300  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080a10d1

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gctccagttt tagctaagca cgatatcttc catgaacaaa aaaagttcct gatattcttc 180  
 aacaaaaata cgtgcatgat atcttccatg catgcacatc ttgattcttc attggtttgc 240  
 ttcagaatgc cacactatgt cttgcaaccc tgatgatgat gaaaagcttt tgtagaactt 300  
 gtgaaactct agtgtgtcac ccccggtctt tcgcagttcc accatgtgca aggaggagc 360  
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 aatttttgac atgatttcat t 501

<210> 6498  
 <211> 567  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080a11a1  
 <400> 6498

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 tggcacaggg cagaagaaca tgccacagc aatagtcctc cataactgcg agatcatgcc 180  
 ggaccctacc ctcttggcag accgcttgag cgtgaagact tacttggcca ggccatggaa 240  
 ggcatctca agggcagtgt tcatcgagaa tggtatcggg gacttgattc agccagatgg 300  
 ttatattcca tggaacccaa ttgaaccaa cacacaggat tgctacttcg ctgagtttgg 360  
 caaactgga cccagggttcg ttgctcaagc aagagccaag tttggcaaag gtcttattag 420  
 caagcaggag gctgcacaat tcaactgctga gccttggtc caagctagca cttggttgcc 480  
 tgctgctggc gttccttttg atgctagctt caccaaagct taaggatccg agacaaacca 540  
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<210> 6499  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080a11d1  
 <400> 6499





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 tactcccccg atattgatta atcttcaaag tgcaaaccaa tttggaaatc ctgtactaac 420  
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<210> 6502  
 <211> 531  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080b01a1

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 ttgctacaca atgcgtgtgt tcttgctata cttccatcag ttgtctaagt caataaaaatt 180  
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 agaacctcaa gtttaggtcc atagggaaga aaaaaaagtc accaactcca taattcaagt 300  
 gctcactagc aatcttaca acctggcagg aagtatttgc atgtcccaa atgacaggta 360  
 ctttgaagtt catcagtga cccaaatttg ctgcttcaac ttgagagatg gaaagaatgt 420  
 gatgtgatct atgcaattgc atttgacaaa caagtggggc atttctccat ctgaaaggca 480  
 gcaaaactat cttggacctt gaccatattc aagtcagaca aaagatgtca t 531

<210> 6503  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080b01d1

<400> 6503  
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 aagactgttc cccaatcatt gtttttaaaa acacaaaggc aaatcaataa ttaagttaga 180  
 tttaatcaac tttttccatt ttgctaccct cagcatcggc atcagcatcg gcgtcctcga 240

gagggggcat gtcagcattt gcttcaccag cattttcata aatgctcagt ccaagcttca 300  
gcatectgtg aatcctgttc cgaaagtgtt gggatcatca aggggtgaacc cagaagttag 360  
aagagcagtc tcaaagagta ggagaacgag atccttcaca gatttgtcat 410

<210> 6504  
<211> 478  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220080b02a1  
  
<400> 6504

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cttttttttt tttttttact tttttctttt tttttttttt tttatttttt ttacgaccac 120  
ccttttagaa caagggaagg ggtgtaaaac accaactttc cataactcaa aaaaaaaaaat 180  
acctttttat tttttaccat ttgcaggaaa gcattaatct taagttgtac agaggcctta 240  
aaaaaatttg gtgaaagcac tcaattggaa accaccctat gcccccttcc tgcaaaaaaat 300  
atatctcttg acaccaatca ccataatgct ataaaaactt tgcgccctta tttatatgac 360  
ccgcgccccga agggcatcaa acattgttta ctggaaggta ggctatgata acaataccct 420  
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<210> 6505  
<211> 488  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220080b02d1  
  
<400> 6505

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gattttcagg aacaaaaatc tctagtcttt ggttttcata taccatccaa atatttgtgg 120  
caacaatggt cccttgctca atcagtaagc ccccaaaaca aagaaaacat tatgttctgt 180  
taatgaatag taatatTTTta caaagaatta atgtacaaca acccccaaaa aatcatgatt 240  
ttgaaaaaag ctggatccta ttgacgtagc aagaagacgc aggatcctgg aggcaattgc 300  
aaaatgcatc ctcatccttg ggaaatgata ttggttagagg atggtcagga atgacaccaa 360

ccttggaat atctgtatgt gccggtgtct cgtagcgagc aacagtaaca accaatccag 420  
 agccgtcaga gagctcaaaa actgattgga tcttcccttt tccaaatggt ggctcttcaa 480  
 acaatacg 488

<210> 6506  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080b03a1  
 <400> 6506

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 cccaactgtc cataactaaaa ataataaacg taccagagta ggattctata tttgcagaaa 120  
 aggactaatc taaagttgta aggaacctga aaaaatttgg tgaaggcact gaaatggaac 180  
 ccaacctcgg gcacttcatg caaaaactaa atcttctgat accaaacacc agaatgctat 240  
 caaaactcat tgccactatt gatatgaacg gcgcccgaag ggcgcacaaa cttgtataga 300  
 ggagcatcgg ctatgaaaac aaaacccgag ggcgccacat acagcgttcc actcagaact 360  
 ttcaatatat cctgaagcgt aggcttatgg atatgacacg agagcacatc ca 412

<210> 6507  
 <211> 476  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080b03d1  
 <400> 6507

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 atatatgatac attattttac catagccacg ttggagtatt tattcacaag agaatacagt 120  
 tactagacac ctctctttt aatggggacg gcttggtttt ctacatagga aaaatagtaa 180  
 aagaaaaggg gtaaaaaaag gggcattatt gtagttgatac attctaggct gtacaagtag 240  
 gagcttttcc tgttattgag ggcttgacat tagcacattt agctgttgct gcagctccgg 300  
 tgaatgggag atcaatatta gccatctcta caccctcaca tgggtgcacca ctactacaaa 360  
 caagaaccac cccatcttga cgttctgaag tgcccttaat gttcttgaag gaaaccttgc 420

ttatcttgat ttttgatgga gtctggtggg agcattgggt ccaaggacaa tgctct 476

<210> 6508  
 <211> 498  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080b04a1

<400> 6508

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 tgatccaatt tctttctctc accatggatc atcgcaaacc attgttaccc acttcctctg 180  
 acgatgctcc aaatccacgc actcggaagg accttgttct aatgatttgc ggcttgtttt 240  
 tgctctcttc ccttggtgcc tttggagggt acagggcctc caacgcgcca catgctgacg 300  
 tgtcatcgcc agcatcgaa gatgaacaac ctagtccac atcggtgcct ttacgaaat 360  
 ggtacccggt ttcacggggt gtttcttctg ggggtgctgga gaagtcatca agcatgttga 420  
 ttgcggtctaa agatggagct tcggaagcat tttcttgga caatagcatg ctgtcgtggc 480  
 agagaactgc ttttcatt 498

<210> 6509  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080b04d1

<400> 6509

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 aggaatgggc tttgagcaag aaccataac tttatgtgtg tttatgggaa ggtaaacaat 180  
 tgatgagtac aaattgccac cccaagatgt tttccgatcc tttgtgacta caagtctttt 240  
 atatccaatt taattattta ttttaattct tctgatcagg gtggaatggg cgtataaatg 300  
 cagaattcat ttgcaaaca ttgagtgagg ctgtcacagt ggcctcagta gcattgttga 360  
 acaagaacaa cctagcagct ccatagattg cctttgttgg ataaacccga gatgtcacia 420

ccgtgcttcc accttgagca aagctt

446

<210> 6510

<211> 392

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080b05a1

<400> 6510

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gtcgttagt tgggttctaa ctgcatgaac tgggttcgga agctggattc atcatcttcg 180  
aacttgaact gcaatcactt gggttacttg ctcgagattt ttatcctcca tttttcgctt 240  
tactcgctct cttccacctt cgatagccac actaatgtgg gatttaatta ctaatatgga 300  
gtcgagaact aagagtaatc cccaattaac aagagctctt tgctatgcaa acgatggcaa 360  
tcagcagga aggtcaccat ctgttatagt ca 392

<210> 6511

<211> 417

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080b05d1

<400> 6511

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cacaagtgga catatactct taaagactat ttgccccaac atttgctata taacttatat 180  
ataggttgat aacaaaagaa caagcataga tagatttgtt ttctgtccac tagttgtgac 240  
ccaaagacga ttaaagacgc gatattctgaa gcgggataga catggaaccc tcttctccca 300  
tactggctg gaataaatca acctctccat atcgctcgag cacacgcatt cggcaatctt 360  
tagcagccat cgttccagtg gagtatgcc catggacaga acctggatag ctcatgc 417

<210> 6512

<211> 552

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080b06a1

<400> 6512

gttacggcac tgactcttct taagaaacac ctgttcaatt atcaagggca tgtctcagct 60  
gcttttagttc ttggtggggt tgatatcact ggacctcatt tgcatactat ttatcctcat 120  
gggtcaactg acaccctccc atttgctaca atgggatcag gttcacttgc tgcaatgtct 180  
gtatttgagt ctaagtacaa ggaaagtttg agtagggatg aaggcattaa gctagttggt 240  
gaggcgatat gtgctggtat atttaatgac ctaggaagtg gaagtaatgt tgatgtttgt 300  
gtgataacca agggacataa ggaatatctc aggaaccacc ttctaccaa tcctcgtacc 360  
tatgtcaatc caaaaggctt tgatttcccc aaaaagacag aggtcctctt acaaagatt 420  
acaccgttga aggagaaggt ggaagtgatt gaaagagatg ctatggaaga gttacaatca 480  
ttccaaaaaa aattggtgta tgagtatgaa acttgattag tgcagtggct gtgatatttg 540  
attttgactt tc 552

<210> 6513

<211> 394

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080b06d1

<400> 6513

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atTTTTTTtg gaatgattgt tactcttcca tagcatctcc ttcaatcact tccaccttct 120  
ccttcaacgg tgtaatcttt gttaagagga cctctgtctt tttggggaaa tcaaagcctt 180  
ttggattgac ataggtacca ggatttggtg gaagggtggtt cctgagatat tccttatgtc 240  
ccttgggtat cacacaaaca tcaacattac ttccacttcc taggtcatta aatataccag 300  
cacatatggc ctcaacaact agcttaatgc cttcatccct actcaaactt tccttgact 360  
tagactcaaa tacagacatt gcggcacggg aacc 394

<210> 6514

<211> 545

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220080b07a1

<400> 6514

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gttgттаатс tgaactgaag atagagattg aggaaaacca gtagctagtг gttgtgtgtt  180
aagagtgatg gatagctccg aaatcaagtc accagcagaa ggctcccaac aggggacacc  240
aggaaattca ctgcgtagaa agaagctagc catatacttc attgagtctg aggatagaag  300
gatggccttt ggtcgtgggt acacagcagg atctacacca gttgatatcc atggcaaатс  360
cattgttgat ctttcaaaga ctggtggttg gattgctgcc ttctttatat ttggaaatga  420
aatggcagaa agaatggctt atttcggcct ttccgttaac atggtggcct ntatgtttta  480
tgtgatgcat agacctttac aagttcatcc gacgcagtca acaattttta ggaatattac  540
aagct                                         545

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<210> 6515

<211> 417

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220080b07d1

<400> 6515

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aaatccattg tcttatgcag aatactccct agctagtttg cgttttcaat ccctatgacg  120
acttaatatt gaaaatcttg acggtaattt ttgaccattc aagaagacta ttacaagtta  180
ttcaatggaa caaagacagc actttgtgtt ggtatgagtc gagttcctat gtagctagct  240
aggagctccc aacatatgtc atttcatgtt tctccatctc atgaacttgg tgttccctgt  300
gcttgatatct atgcgccgaa tatacgaaga tgccgaagtt gatgatgctc aaagctgtga  360
gaagccagta taagtaatca aacctgccag tgttgatgtt ttgagacaga caagatg     417

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<210> 6516

<211> 553

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080b08a1

<400> 6516

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 aacccttctc ctttttagta ctgtccccag aacaagtcca tcatatacca tatggaaacc 120  
 aattctagtt tcttcataca ctcaagaagaa taacaaatta atatcctaata atcatattct 180  
 tgagaaagcg ttctctctat ctatatggca gccttattca tctcaaagtc caagcttcaa 240  
 tccacaggac ttgttcttgt cctaaacctc tctttctttt tcttcttctg tctccttcta 300  
 aagggtttatt atctccaacc tcctaataac tcgaattctc aatctaattgg cccctcaaa 360  
 atcttcaacc atgcaagatt ggtcagagat gttagtgttg aaggctgcac tgacctccac 420  
 aagtactcag attacgagtc aaagtgttta tatgtgaaga actatcttga ctgcagggtca 480  
 aaaggttaca taaactatct ccaaattctc tattgcagct ttggaaaatt tcaaattttg 540  
 ggacaaaccc tac 553

<210> 6517  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080b08d1

<400> 6517

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 agagacttgc ttctctagct aaaatttcac aattccaaca gccatggcta tccttatgac 120  
 caaaaagcag aggtacacac tcaataggcc tgcccccaag gatttatcaa gcctcatatt 180  
 cttcttaggc aaaatcacia gtgcccaaag caccctccc atcaagaaca aaaggtctc 240  
 atagagtga gcggttcttag gagtgacata cgggtctgga tgctcagacc ta 292

<210> 6518  
 <211> 133  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080b09a1



<400> 6518

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tctcatccc tcgaattatc gtgcgggctc acacgcta tggagacgga cagagacagg 120  
gtcaactaca tat 133

<210> 6519

<211> 486

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080b09d1

<400> 6519

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acgatctatg ttttggtaat accctatcaa acattagagc agactctccc aactgaacat 120  
gctccagatt agctaagcac gatatcttgc atgaacaaaa aaagttcctg atatcttcca 180  
acaaaaatac gtgcatgata acttccatgc atgcacatct tgattcttca ttagatatgc 240  
ttcagaatgc cacactatgt ctagcaacct tgatgatgat gaaaagcttt ttagaactc 300  
gcgaaactct agtgtgtcac ccccggtctt tcgcagttcc accatgtgca aggagggagc 360  
cacttcaaaa acctctgtag caactgaaag gtgacctttt cttccgctct tatcaccgtg 420  
cagcttcctc ttataatttc gcttgtgaac attaaatccc agaggcttcg cagcttcctc 480  
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<210> 6520

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220080b10a1

<400> 6520

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caccacacag actctttata gctaaactgt caaccaatgg ctgntgtgat tgtatttttc 180

acaacagccg cctgccatgc caagccagcc cagaccttct taccttgaag gttgagcatc 240  
 tgggtgactta ccatataagc ctctgccatg ggctgaaccc ccacagcatc tatcgaggat 300  
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 aacagaggca tcgggc 376

<210> 6521  
 <211> 490  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080b10d1  
 <400> 6521

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 atagaaaaga aaagaaatta aaaacagctg attaattaac cttgtagcat catcatcatc 120  
 atcataatca tcattaacct atctaataca ttattatfff cttccccctt agatcaagaa 180  
 ctagaagatc cattagcacc aacaacgttc accccatcat agtgattact actcggatct 240  
 tcagcgcgat cttcaccacc atcattgtta gggttttcaa aaaccttgac atcactccca 300  
 tttgcatcat tatcagtaga aatattatfff ttagtagtaa tattaatatc attactagta 360  
 acaatattat tgttatcctt tttggcaaag gtgtttttgt tgttatgcat ccaaaccttg 420  
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 ttctgaatct 490

<210> 6522  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080b11a1  
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 agagggaatc tttatcaact agatagccct tctgttcatt agcagctatg gtatctgtca 180  
 gagaaatagt gggcctttat tgtcccttca atttggamma aggccggcca tagctgtttc 240

ctctccaaaa ttggcctctg aggggacgag agacactgac cttgagtgtc agggacgacc 300  
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<210> 6523  
 <211> 482  
 <212> DNA  
 <213> Glycine max  
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 <400> 6523

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 attttatttt ttccagcagt agttacgact ttgggatttt acatatagca cttggccaca 120  
 acacacagag gattcttctt atgctgtgta actcctggca acacttcagt atcaatgtct 180  
 tcctttttca ttccttgtgg caattcccag tcaaaggaat aaagaagatt agcaagtata 240  
 agatccaatg cagcaaatgc catattcata ccagggcaca atctacgacc agcaccgaat 300  
 ggaataaact caaaatcttg tccataaaga tctatgtcgc aatttaaaaa cctctcaggt 360  
 ataaactctt ctggatcttt ccaagcctta ggatctctat gaattgccca agcattcaca 420  
 tataataatg tcttggtctg aatttcgtag ccatctaaca tgcatttttt atttgtttct 480  
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<210> 6524  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220080b12a1  
 <400> 6524

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 taggttatca ccatatagaa agcagatgac actgtgcctg cttacttcaa cgactcacia 180  
 cgataaggcc accatgaccc cagttgaaat atctgggctc aacgcgatgc gaattaacaa 240  
 ctagcctacc ggggatgtca tagacactgg gctcgacaaa aatgccacta tctatgggga 300

gaagaatgat ttcacatctcg caactcagag gtgggacaca tgatgtctct cttataacca 360  
 acgaggatgg tattttccag gcgaatgccg ctgatggcga aactcacggg ggagggcgtag 420  
 ataatgattg cagaaagatg aaccattttg ttcaaggggtg cacgaggaag aacgagaagg 480  
 atattaaagg aa 492

<210> 6525  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080b12d1

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 ttgacaaaa tcaagaacaa cccatgagaa tcttctggtt aatcgacttc ctcaattttg 180  
 gggccagcac cgtttccact gccagctgca ggaccatcct catccatggg tccacccgca 240  
 ttaccaccag caccctggga catttttgct atgaagggtat tacaagtgtt ttccaactcc 300  
 ttcacattat ccccaaattc ggcagcctta gcaagttggg ttccatctag cccttggata 360  
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 ttggcatccc tgattgggggt c 441

<210> 6526  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080c01a1

<400> 6526  
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 aaccttaatc acccatggac tcttggaataaaa aaaagggggg gggtgaaaaa aaacaaccga 180  
 aaagcccgtg ttgggggggg cctgaagggc gagaccctt tgaatatgta gcccccggt 240  
 tccccccac atgtggcaac aagtacgtgc tttcaagcca aacctatgag aggggcaagg 300

gccaaaaccc cccgttagag ggtgggcgga aaaaaaacgg aacagcgca gaatggggtg 360  
tacaagaa 368

<210> 6527  
<211> 439  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220080c01d1  
  
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gagattttta ccccgggggg gggaaaaaaa tagttttttt ttgggggtgcg caaaaataag 180  
gaagggggcc cagtgatcac aaaagacagg gggggaaaac cggggggcag ccaaaaaaaa 240  
aggagatggg aaaaatcccc ctttaccac aggggggaaaa agcagaaagg gccggcccga 300  
cccccccaca aaaagtttag cccccctaag ggggcaaggg aaaccccccc ttaaggggga 360  
aaaaaagggg gggggggggg ggggtacacc ctgggggtccc agaaaatgag ggaaccgcga 420  
agccccccgg gatttaaatt 439

<210> 6528  
<211> 463  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220080c02a1  
  
<400> 6528

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tattcacata aaaagactaa gctaagttgt taggagttct taaaaaatt tcctgcaagt 180  
gctgtcaagg aaccgaacct atgtacactt catgcaaaag ataaaactga ggataccaaa 240  
caccacaatg ctgtcaaaac tcaatgccac tatttatctg aacggggcac gaagggcgcc 300  
caaccgtgga tagaggaaca tcaactctga gaaccagacc cgagtgccct acattgacat 360  
tacactcaga tcttccaata gatactgaag cagaagctga tggatatgtg atgaaagcac 420

atccacaaat tacacttggg caatctctca ctgaatgaat gag

463

<210> 6529

<211> 454

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080c02d1

<400> 6529

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 caatatcctt tttggggaac caaagaattg gcggacttcg aaacaatgaa aaaagggacc 180  
 tttccattta attggatttt gacaaatggg ttgtgtattt tggccttact tttacaaaat 240  
 ttggggcccg gagagttttg aaaaaaacca tggtagatgg caggggtcaa aattgccgaa 300  
 tgagatggcc ccagatttat ggggctagaa tccgatccat acttaggggg catgtgaact 360  
 ttttggggga cgcttgcaat tactaaaaac cctgtttttc taattgaggg attcaatttg 420  
 ctgagaaggg gtttcaaatt cagtaaaaag ttgg 454

<210> 6530

<211> 351

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080c03a1

<400> 6530

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 agacctacat ccaccccgac tcccaacccc aatccagcaa tggcctcaga gccgccatcc 180  
 gccgccccgg cagcatcgac ggctaccaac ccttgtcttc caaaaccgcc gccgaaataa 240  
 aaaagcggaa caagtccaac aacaacaaca acaagtccga tttcgacgaa aacaatgctc 300  
 agatttttag aatgacgctc gagcacgccc acctgcagtc ctgtttgttc a 351

<210> 6531

<211> 342

<212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080c03d1

<400> 6531

gccttcgtcc tttttttttt ttttttttga aaggaatggt ttcttgaaaa agccaaacgg 60  
 cgttggtatac ataaaccttc ggacgtgggc aaaacgtcat agcctattaa aactcagggg 120  
 gccttgcatt ttttttcatt ggtacacat gaaacgggtc cgtcctaccc ccatcccttg 180  
 ttgtttcttg tgccaccttt tgtttaaatc gtgcgcactt aggtgacacc tacaggatga 240  
 ccaattgtcc cggcctatgg ttcggcgga attccaaggc taagtgtttg gacatacaaa 300  
 acacattggc ggagaaccgt ggggaccttc taaaaaaca tt 342

<210> 6532  
 <211> 518  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080c04a1

<400> 6532

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 ccgttatatt cctcctcctt gcaatattat tcactctcac accccacaag gccaacgggt 120  
 ccgcgtgtca ccctgaggaa gaagcggggc tgttgggctt aaaatacggg atccgatccg 180  
 acccgtccgg cctgctcaga aactggatat cgggtaccga ctgctgcaca tggaccggag 240  
 tagaatgcca ctataacagc acccgggttc aaagattatt cttaacgggt caaaaacccg 300  
 aaaccatctt atcgggaccc atctaccca ccctctcaaa actccaactc ctcgatggac 360  
 tctacctcat aaacctcacc aacattgcgg gtcccttccc aaattttctt tgccaacttg 420  
 caaatctgca atttatctat ctagaaaaca acaatctctc tggacgaata cccgataaca 480  
 tcggtcacct tacacgatta gatgttctca acttaact 518

<210> 6533  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080c04d1

<400> 6533  
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 taaaatcccc cactcttggg aaaactttcc cacaaaggga acttaacccc ctaaactttt 180  
 tgacatgtgg agtcctccc ctaatccttt gctgcggggg gggcaacgtt aggcccaacc 240  
 acaacctttt ccaacgaggc gcctggccgg aaaaagtttt ttggggagcc gaccccaaaa 300  
 aggggtgggg gtaactttca agctttcgag gccacaaca ccgtggggaa gctttccac 360  
 ccccccttt t 371

<210> 6534  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080c05a1  
 <400> 6534

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 ccagaaacaa ggggttgccg ctgtcatgag acttcatac gcatgggggt gcgacacca 120  
 cgcgcgcgcg gcttcgttca ctgctctaga aggccaccac ttttgctggt ggcgccactg 180  
 ctctgtaagc aaaggctcgtg gtcgctggac tccttacgca acaaggtag gctcagtcgc 240  
 aatgggaact ggcagaactc gcacgcgaac acgctgcacc agatgaggac ctggttgatt 300  
 tacggaccgc ctacatcgaa atacgcttta gatatttttt tgcttcgacg ctgttgagcg 360  
 cgaaccactc ctctgagatt ttc 383

<210> 6535  
 <211> 486  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080c05d1  
 <400> 6535

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 tgatttttta ctacaacaag tgtgaaaaaa ttaatatatta tattatatcc attacaatac 120



aataatacat cattttaaaa ttagtcta atcatccatg taacgacgaa catctgatcc 180  
aggaaaaatt tgtctctcaa gccatagcct taaaatctgc gttctagtgtg tgggtgctac 240  
aagtatttaa gtgtccaatt cctgctgttg catagtacgc acaagtagtg caaaaatata 300  
agcaacaata cgcattcacc tacgtagtca cacatgattg acaagtgagt atatgtgcgt 360  
tacaagactt gccttaattg atgaaaatac ttttttccaa atctttgaca aatgccttag 420  
catgaacatc ctgatttgta gcacccattt caattaagga agatgtcatt gaggcataat 480  
cttaat 486

<210> 6536  
<211> 478  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220080c06a1  
<400> 6536

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aaaatcatgt ctgggtcctt gggattcttc tttgtgggtc ttacgttggtt gttgatggtc 120  
ggggtggcta atgctgtggc caacacttcc aacaaatttg atcaactctt ccaaccaagc 180  
tggtcttttg accacttcat tcatgaaggg gatctctca aactcaaact agacaatttt 240  
tccggcgctg gttgtacttc caagagcaag tatatgtttg ggaaagtcac catccatctt 300  
aagctggagg aaggtgactc tgctggaaca gtcactgctt tctatatgtc atcggacggt 360  
ccaaaccaca acgagtttga ttatgagttt ctaggcaaca ccacggcgga accatactct 420  
gtccaaatcc atgtgtatgt taacggcggt ggcaacaggg agcaaaggct caaccttt 478

<210> 6537  
<211> 432  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220080c06d1  
<400> 6537

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gtgaattttt ttttttaatt tttatttttt ggggggacaa aaaaaaaaaac ccacaaaata 120

tattcccccc cccgccttaa aaataaaatg gaagggggga aaaaccccct tcccctctct 180  
 gttttccaac ctttaaaaaa aacccccccc ccaagaaaag gggaatatat tccccaaccc 240  
 cccacaatt ttgggcctta actaaaaaat aaaccacag gggggaaaaa aaaaaaaaaa 300  
 aactttgaaa gtttgacggg gaacccccaa cggggcgctt ttgggtaaag gggccattac 360  
 cggggggggg ggccaaaaaa aggggggggtg tttgaccact tcgaaaaaac cccctggggg 420  
 caaaaccccc cc 432

<210> 6538  
 <211> 538  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220080c07a1  
 <400> 6538

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 catcatgaat gcgggccagc catgtttttg gaaatctgaa tttgaatgct ggcattatga 120  
 tctcataaaa ctgttggtcca aactcatggt ttgagtggat tatgttgaat gttactaagg 180  
 atattcatgt agataattgg agttacattg gttgagctgg ctggtgatgc aaatgggtta 240  
 ctagttaaatt ggagtctggt tcagtggaaa tacattggta gaaaagatag cttaacatta 300  
 tttttaagta tctcatccta gtgtgaagga gggtagtgcg gtaccgtcac atatgcacaa 360  
 aagtcaggac catagattgt caatatttag tggctgcctc atgacanaca actctgcatt 420  
 atattcagtt gtttaaaagc acgtgtagtg attgtggcac taactaacta agcatgcttt 480  
 tntttgagaa ttactatattt gaggcattac cttctcttag cattacattt atgggtcac 538

<210> 6539  
 <211> 470  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080c07d1  
 <400> 6539

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gtagtcggcc ttcgtccttt ttttttttga aaggaaacat ttaatacaac attttgataa 120  
 atatggcaaa aattctatgt cccctcaata attgactgat ggaaatagat gcgtcttaat 180  
 agttacatga accagcccca aatggcttgg tttaaaaacc ctctactgac acgagagata 240  
 cttgctgacc ataacatgaa agaagactgc aactgcttca ttcaatcatt gactacacgg 300  
 ttcttcattg tggattcgag atgatctgca ccaccttctt catcagaggg tagataattg 360  
 cctataccat gggggggaga atcgtctaata ggaccgtgca tgtctggaga ttttttaaat 420  
 atatacttca actggtcaat ggcttcatca gaaacgaagt tcccattaat 470

<210> 6540  
 <211> 481  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080c08a1  
 <400> 6540

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 ggttcttctt ctctccgga cactagcaag agcataaagc tagagcgata caacagctac 120  
 atcaggagac tcaacagcac caaactctc aacgcctcct ccaaactcct gttccgtgcc 180  
 actatcttag tcgcaatcat cctcgtcttc ctcttctact tcaactaccc tcccctcgcc 240  
 ccgacttca cctaccaccg acacctacac tcccaactccc acttgccttc ctactcctcc 300  
 tcttcgcct cctgggagaa gcaggctcgt cactcctcca cccctcgccg ccccaacggc 360  
 cttaccgtcc tcgtcaccgg cgccgctggc ttctgctgga gccactgctc ccttgccctc 420  
 aaaaaacgcg gcgacggcgt tctcgggctc gacaacttca acagctacta cgatcccttc 480  
 c 481

<210> 6541  
 <211> 373  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080c08d1  
 <400> 6541

gaaaatgaaa acatatggat aaaacaaggg gagagatctg caacctttgt ggcagacccc 60

accctgcatt attacacctt tctttgtctt tccttacaga tctacattac attacattac 120  
 atacactgcc ttgctgcttt tgctttctgt ttgtttccct gacattcata tatgcatata 180  
 tatccctcat ctatatatac ccgatattta tattatgtat aactgctaca ccaacatgca 240  
 tttggatcca tggacacgga ccaccacact tattaagaaa aaataatagt aataacttgac 300  
 gagacaacaa gaaaaatgtt ccaaggtagg catccgaata ttccgttttg ctttgttcct 360  
 tgaaaaaaca aaa 373

<210> 6542  
 <211> 481  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080c09d1  
 <400> 6542

cgctggaaag atggaatttg actatatgtg tctcacatac tagtaggaaa ccaattgaac 60  
 cataacaaac aggctagcat atagaaagat aatcctaaca gtaagtttta catataatac 120  
 acgtgataat gagaattgag aagaactgat ttcaatattt tactaaaact atgctaacca 180  
 aactacattt acattacttt tttgccctaa attacactct taaatataat aatagtaaag 240  
 ccatgagcaa cagcattgat catagccctc ccaaaaattc agcacggagc tatagagaag 300  
 ccataaaat gttgactccg tttatcaaaa tgttgacact acaatcttct tcaccttgct 360  
 caacaaaagt agttaagata acacaaagct ggagctgcta tcagaatcag attcgcttg 420  
 ttgtggtgat ttagtgcca aggtgagcca tggcttggat tcagctagct tattaagggc 480  
 t 481

<210> 6543  
 <211> 537  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080c10a1  
 <400> 6543

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 agtctcgccc tacaagagct caaacattta cataaccctg atcctacctt cacaccatga 120

atgaaggtac acgctctcaa atctactcca ggggatgtga ataataaagt cgctcttgcg 180  
 tgatgtggag gctccgtttg aggtgtctgt caactttgga ctttccgtca aacaaacacc 240  
 aggtccgctg ctgcgttggc attctttcat ttcaggaaag cgagaactta tctgcttttg 300  
 gatagagacc agctggggca ttggtttttc ttcaattatc gaatacggga tgggttatgg 360  
 ttacatagca gtatcaggac aagctgagtg tctctggaaa aacagccacg gtctatcttt 420  
 cttgcgacct ggggcctcgg ctgctactga tacgctcacg gctactccga cgctgtggtg 480  
 gggctgattt tgctctcctg ccgaaaaggt tcttggaatt gagggagggg aaaagac 537

<210> 6544  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080c10d1  
 <400> 6544

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 aggggtactg ctcacctgct taaagcacia cggtgacaac aataatcacg actgcagata 180  
 cctctgaaaa atcataaaag taaacgcatg gacaggcaaa ccgctagcac ggctacgggg 240  
 accaatctcc gtagctatat agaagcccat aagcatgaca attgagtgtg acaaattgct 300  
 gacactggaa ccttatgcag ggaggcctca tgggaaacgt gaagcacaca tggaaggagc 360  
 tgaaatcagg gacacattcg gcacccaagg gagattgacc agcccagggg agccaagg 418

<210> 6545  
 <211> 313  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080c11a1  
 <400> 6545

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 gagccgtggt cttcaaactg gactatcgag aattaccgat gggaaatgaa agaggaggat 120  
 tcaagggatt catgagcgct tggagcgtgc cgaccaatcc gtgcgatacc tgcaagctgg 180

cctcggcggc actcttctgc cgccccgaac tcatgatttc tgtgcgtcgg ctgcgagtcc 240  
 aacattgact ggacgatcaa actcgcgacg agccaccagc gcatgttgat gtgttaagag 300  
 tgccagcact cac 313

<210> 6546  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080c11d1  
 <400> 6546

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 ggcattgaaa agagttttacc gccagatttc taattctaca cggggggaat atgaaaccgc 180  
 agcccccttt taaaagtttt tttttttttt tttataaaaa ggaaacgggc ttttttggtc 240  
 gatcgaaaca aattttccca ataatgttcc cccatggggc tccagctaaa aatcacgttc 300  
 gtaccgattc gatttttgac ctttttcccc taacaatccc acagaatcgg taatcattat 360  
 cctaagattc atgcactcca tgggttcttc attttgaaat taactaaacc gatggt 416

<210> 6547  
 <211> 524  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080c12a1  
 <400> 6547

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 tgacgggaaa ccttggggag ggctttaatg gagctgatct tcgaaatgtg tgcacggaag 180  
 ctggaatggc agcaattcgt gcagaacgtg attatgtgat ccatgaagat tttatgaagg 240  
 ctgttagaaa actgaatgat gcaaagaaac tcgaatccag tgctcactac agtgctgatt 300  
 ttggcaaaga ctaaaagcta ttataaaatt ctgagccatg gatatttagg gaaaacttca 360  
 tgcaattagg ttaactcaga cggctctgacc ttaagatgaa gtggtctctt ttagctatgc 420

cttctattgt tcgacttatg cagctccata gagaagatgt ttagttgaat catttgcccta 480  
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<210> 6548  
 <211> 480  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080c12d1  
 <400> 6548

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 ctttaaccat aaatggggag gcacgcaaac tctaaattca aagatcagta atttgtatag 120  
 cataatccca aagaaaacaa aaataataat aattcaatta gcttaggcaa atgattcaac 180  
 taaacatctt ctctatggaa ctgcataagt cggacaatag aaggcatagc taaaagagac 240  
 cacttcatct taaggtcaga cegtctgagt taacctaat gcataagatt ttccttagat 300  
 atccatggct cagaatttta taatagcttt tagtctttgc caaaatcagc actgtagtga 360  
 gcactggatt cgagtttctt tgcatacttc agttttctaa cagccttcat aaaatcttca 420  
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<210> 6549  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080d01a1  
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 aggactctct ttctatgaaa ttcctatat ttaggggcac aattaattag cgtgggtaaa 180  
 caaaaaacag aaattacata aacagtgaac caaaataagt taaaataact gtagagagag 240  
 atagaaatag ctagtatagg caacgatatc tacaccgtct ctgcctcttt tcgcacgttt 300  
 tactaatttt acacgtaaaa tatagagaga tagagattga ggcaacaaca ctgatcttcc 360  
 aattccatca aacttcgcaa ctcaccctct cc 392

<210> 6550  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080d01d1

<400> 6550

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 tttgggggga ggggtcccccc cccattttttt cttttcacgg agaatttggg' gggggggccc 180  
 aaaaaagccg gttcctcccc ggcctaattt ttaaaaacaa cccccccctg atttgtcccg 240  
 gtcgtggcct tcaaaaaatg ggggggtttt ggggccccat cagggccggg ggggttcccc 300  
 ttgggggctc ccaaagttgc ctagggaata acctgggttt taacgaaagg gggctccggg 360  
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<210> 6551  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080d02a1

<400> 6551

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 aaaaaacgaa cttttaaaca gaatccttcc cttcagatgg gaaatctttt ttttcccaaa 180  
 tattccaaac ccattgaaca acccatgcta tactatttat aaagtgaacc gagaagtcag 240  
 tttaggttgt ttgccagaag ataacattga ataaactttt cctacactga tatgaagggtg 300  
 gaggtgggga tcccgtttta ggtcctaata catg 334

<210> 6552  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080d02d1





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tggcactctc tagctagtaa cgcgtgaact gaatgaacta tactcagaaa catgcctgcc 300  
ctatttgaac agggggatca gagagggatc catagagaat tcttttagca acccattgat 360  
ttgctgcttg agagaagtgt atgccatccc aactaacatg ttgggaagga tttttgcatg 420  
gatttccata tactgggtcca tttact 446

<210> 6555  
<211> 371  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220080d04a1  
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aaacatgtgg ggctgaagag gaccaccctc ctttcattgca gactttatcg acttgtgtca 180  
gaaggggtgga gacgcttcca aaaaagcatg attttccctt gccacctctg acatcgatgt 240  
ctctggcgcg agcgctgaaa gcgctccaaa gaggctaacc ttcgaagaaa tgcataaggag 300  
gacctacttg ggagtgaacg ggaccggctc aacaaacctt tgttcaacga tcggtgggtgg 360  
gtcggactca t 371

<210> 6556  
<211> 519  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220080d04d1  
<400> 6556

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ttttggccaa aaagctgaca caaatattcc atatagaaac taaataccct tctaattccag 180  
gaaacggggc ctaactagcc aacattccaa aatttggaac attcaaaaaca taaacatggt 240

aaaagactgt tccccaatca ttgttttttaa aaacacaaag gccaatcaat aattaaggta 300  
gatttaatca acttcttcca ttttgggtacc ctcaacatcg gcatcagcat cggggtcctc 360  
gagagggggc atgtgagcat ttggtttacc agcatcttta tcaatgctca gtccaagctt 420  
cagcatcctg tgaatcctgt taccgaaagt gttgggatca tcaagggtga acccagaagt 480  
ttgaagagcc gtctcaaaga gtgggagAAC gagatcctt 519

<210> 6557  
<211> 531  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220080d05a1

<400> 6557

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aggatttaga gaggatcagt caggttccac aacgcaggca atacacaggg gacatatggg 120  
tatctgaaaa tgggtcttgc aagaccttgc aagaactttg ggatggagac gtttaagtat 180  
tttttcaagg ataaaactat ggtttgggat ataaactatg aaaataagca agattcgaat 240  
tccatgttat taagatgtct tgcattatta ttatcattat ggctggctat aactttatat 300  
aaggacctgg atggccttag tatttatctc acaagtgcc ttgattgaga ccttgagttg 360  
aataagagtg tggcatgttt atcattggag tgagggtgtg gtgcctcttc cattccatgg 420  
aaacataaaa gatattatatt tgtcatcaat gcataccatg accaccaacc atactgcact 480  
aacattctat gctaattgtt atggattttg cttagcttct tgcggcatct t 531

<210> 6558  
<211> 503  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220080d05d1

<400> 6558

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tacacacatt cgtagaaggt tttctttgcc catgttgccg tgattttgtg gaacaaaaaac 180

aaatatat tggttataat atacatgcaa aggatgaggg gccacaacgt tactttgatg 240  
 attaacatgc cccactataa aaataatata tgtttttctg atagggactt gtgatattta 300  
 acctaaaggt aatgtgcaac aacccccaaa aaatcatgaa tcttaaaaaa gctggatcct 360  
 attgacgtat caagaacacg cgagatcctg gaggctaata caaaatgcat acttatcctt 420  
 gggaaatgat attgcttgag gaaggcttag aatgacacca accttgggaa tttccgggtg 480  
 tgcgggtgac ccgtttcgag aaa 503

<210> 6559  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080d06a1  
 <400> 6559

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 gttggcatgc cattccatgt accttttctc cagaaacagc aaacagaagc ttgattcttt 180  
 ggtttgaatg tttctcgtat gtgctagctt tgatccagct tgtttcttcc agcctgggtt 240  
 taggataaat aaataaccag gctttgagta acatgatgat catttattat gtttattaat 300  
 tgttgcagaa gataggagtc gtctgagtgt aactttaatc tagctagttt gatttggctt 360  
 gtagtgcttc tttgtgttag cctttgtatg ggatgtaaaa cagtgtcctc ttgaaggaaa 420  
 gaaaaaaaaat agttgttctc tatcgtttc 449

<210> 6560  
 <211> 369  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080d06d1  
 <400> 6560

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 tgaaaacaat acaaaggcat acacaatgag gcacatacca gccaaaccaa acttgctaaa 120  
 atagaagata ctcacacac gacaccacaa acatgtgaca catgaaaaac atgtttattg 180

agccatattgc tacaaaaagg cgggctatatt atggatgcta cacccattct agaggacaca 240  
 agctgggtgca gcgttggtccc ctccaagaga gcttaaattct aagcaacaat acgcattcac 300  
 ctacgtatct cacaaaagag ggacaaggga tggatatgcc acatacagac taggcttaat 360  
 tgatgaaaa 369

<210> 6561  
 <211> 322  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080d07a1

<400> 6561  
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 aaactgtgac tcgaccacct cttaatcgcg caccgcgttt ggacctttct atcaattgcc 180  
 gataacgagg ttgcacacat ggttcggaaa ctgttggaa acgaatcttc tggttctgcc 240  
 gagaacttga ccgaaactgt gatgtctatt acgaactcta tgatatgtac aattgcttct 300  
 gcgaaaagtt acgggagaag ag 322

<210> 6562  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080d07d1

<400> 6562  
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 cgtgcacttc cttgccagct aggaaagatg actggtttcg tgcacaggat atacgcggta 180  
 taaatcgct agccaacat acacgcttgt cgaaccatgg agaacacctg cactaaaacg 240  
 ccgagtgagt gattggacag agaccacctc acctatttag aaccgatgtg cgaatgcaga 300  
 caccatttgc ctacaaaaac gagcggcgcc acctgtggcc aaagattccc cttctaaggc 360  
 aaacgaccta tcaagaacat ggctgtctga gttgggaaac tctgtctagg tctcccagc 420

tcttttgattg ggc

433

<210> 6563  
 <211> 483  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220080d08a1  
  
 <400> 6563

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 atctttctct gcagtgtcat atgcatctgc tccatttgaa tatcctgtct tcccttttaa 120  
 ttccagcttt cctcttccat cagcttcttt ttcttctgga tcaactactt atgtatatcc 180  
 aacatcaggc aatcagcttt gctttcctgc ggtaaattca cagttaatgg ggctgctgg 240  
 tgcaatttca tctcattatc ccaggccttt agttggtggc cttgcaaaag gtagcaatag 300  
 tggtagtgcc gagaccagta gaaaatgggc aaggctgggt ttaaacttta atgcaggacc 360  
 tggaagttca gatgtggatg ggagagactg gaattctcct ttttcatcta ggcaactttc 420  
 tgttgctagt tcacaggccc tagctgagga gcaagtaagg ggccaactgg ctggttatgt 480  
 tcg 483

<210> 6564  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220080d08d1  
  
 <400> 6564

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 acacaggata tattttcaga tcctctccca caagtgacaa agtggtacaa acatttgatt 180  
 attcaaact aaacacttac aagcggttgt ggtcattaaa ttgtatgatt atatattctg 240  
 ctattgccat gaggattggt tgtggccatc ccaccacca tcaggctcct tcctgttacg 300  
 aacactacca gccagctgga cccttacttg ctctcagat aaggcctgtg aactagcaac 360  
 agaaag 366

<210> 6565  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080d09a1

<400> 6565

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 attgactgac ggcttagagg cgacggcagc tacgagctgg gtccgaagcc ctacaccctg 180  
 aaaggaactg tggatgatcg cgacagccac tacatcccag aatgggagac ctttggcttc 240  
 gacgagtaca tatagtacgg cctgaagcac accgacatgc tgctcttggg ccccgaaagg 300  
 gcctgacgag agcgccctcag gaacgaagcc ttcattagtc catgagcaat gtgatctatg 360  
 gcatggactc ctacatcaac tgcattggagg ccagcacct 399

<210> 6566  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220080d09d1

<400> 6566

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 tgnatatacac acttattttt ttcattttta aatgaaatca aactcggtac ctctcaagcc 180  
 tctaaagaaa aaaaatagaa aataagaagc attcttaatt attctcctaa ctatatataa 240  
 aatcaaaggc ttagaaccac tatatataat actttgattc attagcctca caccctagca 300  
 agcccaaatt cctcatcat ggtttacgca ggctcaccaa cttgacatca tcaatcacag 360  
 gccacagag tgaagaaaag tcatcacttc tcatgggtga gaatgtgcta aggaacatga 420  
 ttcttgttct aggggtaaca gccacaaact tgagtgtgac acgtttgaac cctcctttgc 480  
 ctttggac 488

<210> 6567  
 <211> 504  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080d10a1

<400> 6567

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 tcggattgtg ggtcttgctt ttcataattt aaagtcactg ttcccaaccc tttttatttt 120  
 acatcgcaat ttcattactg attagtgatc agtgtatagc tggacccatg accctatcca 180  
 tgcattgtgag agttgttaat cctgactgaa tatagagatt gaggaacacc agtcgctatt 240  
 ggttgcgtgt tcagagtgat ggatatctcc agaatgcagt caccacaga aggctaccaa 300  
 caggggacac cgggatattc actgcctaaa aagaagcctt ccatatactt cattgagtct 360  
 gaagatagaa agatgggctt tggctcgtggg tacacagcag gatctacacc tgttgatctc 420  
 catggcaact ccattgttga tctgtcaaag actggtgggt ggattgctgc cttctttata 480  
 tttggaaatg aaatggcaca aaga 504

<210> 6568  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080d10d1

<400> 6568

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 cagtatacac agtgattcgt tggatatcta catgaacaca aactcgtgac cttgcaagcc 180  
 tatcaagata aacgctaggt ataagaactc aatcttagtc attgtagcta acgatatatg 240  
 aagctccaag gctcagaacc catgtatagg atacttggat acattgacct cagaccctag 300  
 caagcccaaa acatgttatc atgggttacc caagctcacc gacttga 347

<210> 6569  
 <211> 73  
 <212> DNA  
 <213> Glycine max



<223> Clone ID: jC-gmf102220080d11a1

<400> 6569

attgtgcttc ttgatatgct agctaacgtt cgcacattat atacacaaa gtgggtgatt 60  
gtgacgagca cct 73

<210> 6570

<211> 463

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080d11d1

<400> 6570

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tacaaagaat aacaaattgt ctacggacta tgaccctcat catcacactc tttaacagga 120  
ctcaattgat gatgcatgga tatgtgtttg tgtaatttca attaagcctt catgaagcta 180  
aatgctgtgag gaacacggag agctttcaac cagtcgcttt caccgttggc tccagcctgt 240  
aggaactggg caggggtgaa ttgggtagct tggtcgcggc taataagacc acggtaaccc 300  
ttccacttga tccttccgtt aacgttggca ccaggcccat agctgtggga ttcagcctag 360  
tccaaggggt cttcgaagtg tccaccggcc catgggcacc atccttcggg gtgaaggaag 420  
tcaccacagg tggattccat cacaaccgac cttgagaatt gct 463

<210> 6571

<211> 515

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080d12a1

<400> 6571

ctcatgggtt tacaatgcaa aaagttacaa agggatcgca ttttctttgc taataagaca 60  
tatgttccaa atgaaactcc aactccacta gtgaagtaca gaaaagaaga attggaaaat 120  
ctaagaggag atgggaaaag gagagcgcaa ggaatatgat aggatctatg attatgatgt 180  
ctataatgat ttgggtaacc cagacaagag caatgatcta gctcgtcctg ttcttggagg 240  
gtctagtgcc tatccatatc ctgcgagggg aagaactggt agaaaaccaa caacaaaaga 300

ctctaagagt gagtcaccat ccagcagcac ctacatccca agagatgaga acttttggtca 360  
 cttgaagtca tcagattttcc ttacatatgg aataaaattc atagctcaaa ccgtttttacc 420  
 tacatttcaa tctgcatttg gtttaaattgc cgagtttgat aggtttgacg acgtgcgtgg 480  
 acttcttgaa ggtggaattc atctccctac agatg 515

<210> 6572  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080d12d1  
 <400> 6572

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 acatgatacy ggtgaacatg ataggagcac aatactatac ataaaaactg acacaacacc 120  
 ctattagata tgaaaaacta gatagcatcc aattacaaaa cttaagcata cataagaaaa 180  
 ttatgcacac ataagtttgc acgtttatgt gtcaatgaga ggtacgttgg aaggaaagaa 240  
 aaccacacac cacacaccac acactctcat tagatagaga tgctgttggg aattcctctg 300  
 aaagtaaggc cttccccact ggtaggaaga agcacagtgt agggcatctg cgccggtcca 360  
 ttacggttcc taaggcttga attcttggtc ctccctgaga ttttgcctc aatttccttc 420  
 agcttggttc caaacttctt aaaggcttga attgc 455

<210> 6573  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080e01a1  
 <400> 6573

aaaataactt aataaaaaac tacgtatact gaatttctga aatacataaa aactgtagat 60  
 acagtataaa tataaaataa aaacacgatt ttttaattgtg tgcgctgaac cacgtctaaa 120  
 cttgctgtat taaaaacgc gtgaggtcat cctcaatggc agataacaga aaacttatca 180  
 attgaattgc aaattgaact cgaaccacaa gtgaaacctt gaaaatagga aagggtcaaat 240  
 agaaaatatt ggggttggct gtttgctggg gttctcaaca agaatttcca gcgagggaaa 300

aactagcttc taaaaatccc tttggaataa tggtaaactg ataaattatg gttaacggaa 360  
 ttaatgccaa aggggattgc ttaaaaa 387

<210> 6574  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080e01d1  
 <400> 6574

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 tgatttacia taggtaaaat ccagagctac cccaatgttc atggtattca ctcttcatag 120  
 ccatcttgac aagttgctca ttaccttatt accacttagt acactaagca gacagatctt 180  
 tgagagcatg tttatgatac ataagctggg agttgttggg aatagtagtc tcctgagaaa 240  
 gaaacatcac tacacacagt aatccatggg ggagcataca atatacgagc attcttaatg 300  
 gaaaaacat taaaaattgg caggggaatt cctctcaata actgagagtt taggtatggg 360  
 atgaggacag tcttgaggac ggttgatgac actgactgaa tcaaattcat gtgcaggttc 420  
 cctattttac tccattt 437

<210> 6575  
 <211> 497  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080e02a1  
 <400> 6575

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 aaaagaaaag attagacctt acaaggtaat tacatcaacg attttaaata aattcttctg 120  
 gttegtttgt acaaaaattc aatgggcaac tcccgttaca attgccaata tacattttga 180  
 ccaacctcgc cacccttcaa atcctctaaa tgaggaacac aaaattgggt atgcagcaat 240  
 ctcttaaatg gtagttgaag agtgagtcac cattaataag attctaagtc tgagcatgtt 300  
 atgtgcctag ttttacaaga caactacact caatattaaa gtaagaatca cagagcttgt 360  
 aaaaaatcca ccattgtaat attgtgtcaa gcaccctgaa tttgtggaat tggtagatgg 420

agccaatgct gtgccattta cgctggtaac atttttacca ccacttcctg gaaatataca 480  
ggaaccatga ctcggt 497

<210> 6576  
<211> 568  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220080e02d1

<400> 6576

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aaacaaacta ggtaatcac tgtgaatggg caaagaaaaa aattatntag gttacccac 180  
aaacagatgt atgatgaaca caagaccaca ttcattgcagg cccaagttg atccataatg 240  
ctcacataac aatcccttcc tcggaacacg aggacacgc ttaaactgca tggatggcac 300  
tgccattcat atcaccacat gttggtgttg catgaaaagc tgattgtcta gagggctcctt 360  
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tcagttttga tatgccaacc agttcatcaa cattgatagg gcttttagaa tgtactgcag 480  
ttggtttcag cacttcatgt gtttctcct tcttggtggg ctctggactg tattctgacc 540  
aatanggcag aggaaacggg aacactgg 568

<210> 6577  
<211> 387  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220080e03a1

<400> 6577

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ccagtacaag attactggat atttcatctt ttcttgcat gttggagctc ttggtggcgc 120  
tctatttggc tatgatcttg gtgtttcagg tggagttacc tacatggatg atttctcat 180  
acaattcttc ccaaaggtgt gtgaaaagaa gcatgcacat cttgcggaga cagattattg 240

taaatatgat gatcagatat tgacactctt tacttcatct ctatactttg ctgcccttgt 300  
 gtccacgttt ggtgcttcca gtgtaacaaa caccaaaggc aggaaagcta gcatcttagc 360  
 tggatccgta agctacttta taggagc 387

<210> 6578  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080e03d1  
 <400> 6578

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 ggtttttgta ttctgtgttc attgtttttt ttactatttt ttttctattt caattatgca 120  
 aaaaaaaaaac ccgtgggcgg gcgctctcac cttctggagg ggaaaaagac cagagcacac 180  
 gggactgggg gggggggccc caacccaatg aagaattggg ggcaaacggg gtttccggca 240  
 actcgagaa ccggggaggg gaccaaacc cccgggggtt ttaccctcc ggggtccgaa 300  
 ggggggggcc aaaccggggg gccccccag aattgcgccc actgcaaaga gcggccccga 360  
 cggcaggaag gaaaagaagc cgaggctcga ttgaacctct ttacgggcac gcaaggggga 420  
 tataccccca a 431

<210> 6579  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080e04a1  
 <400> 6579

agcaaaatga agagtgcgat ttgtgggata atcctctctc ccaaccacgt cttcaaacca 60  
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 ttggcaacag ggcttggtat aggaggtggg gtgctggaaa agccaattat tgaaaaagtc 180  
 acccctggcc gtgagtgtga attcgattta aagaaatcac gggaatcggc accgccttat 240  
 catgttatat tgcacaacga caactttaat aaacgggaat acgtggtcca agtgctgatg 300  
 aaggctatac ctggaatgac ccttgataat gcagttgata tcatgcaaga cgcacactac 360

agtggattgt cagtggatgat catctgtgac caagccgatg ctgaagatca ctgcatgcag 420  
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<210> 6580  
<211> 416  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220080e04d1  
  
<400> 6580

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tttgttcatac ttaatcataa ggccaagttt tacacaagaa atatnctttt tttcttttct 120  
ggtttctcta aggccttcat gaggagggaa cttatgtaca cctgcaaata gttccatctc 180  
acctttcaat agcataaaag ccagtgagat ttgaagttaa acttgatcatc agcaaccacc 240  
atgtgcaggt tcaattgaac tgagcaatcc attgcctctt agctgcatgc agtgatcttc 300  
agcatcggct tggtcacaga tgatcaccac tgacaatcca ttgtagtgtg cttcttgcac 360  
gatattaact gcattatcaa gggtcattcc agggatgacc ttcatacaaca cttgga 416

<210> 6581  
<211> 566  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220080e05a1  
  
<400> 6581

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cacttcttct tctggcggag gtggggccca tggctgaggc tgtgacatgc accccaacag 120  
agttgagtcc gtgtcttcca gcaatcactt ccgggtgctaa accttccaat gcttgttgca 180  
cgaagctgaa gcagcaaaaa ccatgcttat gtggctacct caaaaacgct agcttgaagc 240  
agtatgttaa ctctcctaata gcccgaaaaa ccgttgcttc ttgtgggatt ccctttccaa 300  
cttgtaatt aattaagcct tcttataatt aaagtgtggg atatatatat atatatagat 360  
aaacagttta atttatacac actttgatcc taaaaagcat cttgacacaa gcattcaata 420  
ggatttcacc actttatcgc aacattttta catgatgcgg taataaagta aattcttggt 480

gaatatttgg ataacgatgt tatataactca tagtttgtgt gtataacata aacttatatt 540  
tattatgtac tctatatatg ccactc 566

<210> 6582  
<211> 401  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220080e05d1  
  
<400> 6582

attggccaaa aaattgacac ctattaacac atataaaacc ctggacacaa catgtctcct 60  
ggacgtgtcc aatctagaca gcatttataa agatttgaga aattcttaac catattcatg 120  
gtagatgact gcttcccatg tattgtatgt taaaaccaac ggggagagac atatattgag 180  
ttaaataaa ataacttttt aaattttgca cccctactat taggatttaa catcggtgtc 240  
ctaaaaagga ggcattgattt actttgtttc cccagcatgt taaaaaatgg tcaaaacaag 300  
gttgaacatc ctgggaatcc tgttaccaa agggtttgga tgatcaaggg tggacccaaa 360  
agtacggaga gccgtctcaa agagttggag aacgaactcc t 401

<210> 6583  
<211> 190  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220080e06a1  
  
<400> 6583

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ctggtgcagg catgactaca tatggactgg ggagtgggac ccgaaagagg cgctgctgaa 120  
ctataggctg aggagaaaaa cgctgagaac acattttttg acgctattat tgagaagatc 180  
gatactttcg 190

<210> 6584  
<211> 409  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220080e06d1





aataataatg ctctaggtaa atataaaaca gctcaggatc taaacacaca aacttgggca 120  
 tcttttatca cacgtataac atgaattgca agactatcat atctttcagg atgttcccag 180  
 ttccctgttc aagtaggcaa tgaacattct ttctgcacta tctgcatcaa aaggaggtgg 240  
 tggccactt aaacttgttt gccctggcaa ccatatgaag ggacggggca tcctactaag 300  
 ctctggaagc ccaactgacc ttgaaatggt tattacaggc aagactttcc ctatggaaac 360  
 tccattaagt ggtcct 376

<210> 6587  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080e08a1  
 <400> 6587

gctcatcaga ctctctccc aaacccaagc ccaagcccaa gccaccatc aattcaacaa 60  
 caacaatagc tctagtaatg aaatcgccat cgccatggac tgcaaagccg tcgctgacgt 120  
 ggcagtctcc aagttccaga aggtcatttc cctcctcggc cgaaccgta ccggccacgc 180  
 caggttccga cgcgccctc tccccaacca acaccaaac acccaacctg cctccgaacc 240  
 gtccgttctc cacgtaccc cgctgcacca gatccacct gcctccctc accaaatccc 300  
 caaaaccgag aaacacctca acgattcatc gtctaagacg cttcatttct catacccctc 360  
 cgccgttact tccttcgtct cctccctgac cggcgacgcc gacgacaaca aacaaccatc 420  
 cccggcggcc acgaccacga cctcccactt tgagatcacg agcc 464

<210> 6588  
 <211> 248  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080e08d1  
 <400> 6588

ccttggcaat atttttttta atgatgcagc ggattcacia tgatccattt agcctggaag 60  
 ggaacgagaa taataaacat tctgataaac atgaatgcac tagtgtacgg gggaaggggc 120  
 catcaccac aactcattac tttgtggatg ttaatggccc ggtgaccgac tggagagtgc 180

aagttgccat ccaatgatgc acgccgtacc tgtgcgactg cgaaaacttg atacgcaaga 240

taaatgat 248

<210> 6589

<211> 349

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220080e09a1

<400> 6589

tagtagtaag catggagtcc tcaaagatct atgcttacct cttcctctgc atgatctatt 60

tctcttccac cactcccatt ctcggttggtg gctactgtgg caaaccccc aaaaagcaca 120

agcctggtaa aacaccaaag acacccaaaa caccggtga taagccacca gtcaccatcc 180

ctcccattaa tgcacctacc gtgggttcttg caccaatagt gaaaccccca agtattctcc 240

ctccaatttc aattattaac ccaccaacca caccaaggga gggagggaac actccatgcc 300

caccacaaaa gtatactgcg caggctacgt gccccattga cacgcttaa 349

<210> 6590

<211> 488

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220080e09d1

<400> 6590

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tctttgctgc tacttgcta agattatatt aaaccataca tgcaacgatc tcaattaaaa 120

acaaatgggtt ttacaaataa tagcaaaaaca aacaacagca gttccaatca gaagagaaga 180

gagatagtgt ggctcgacat cctctcatgt cgattttgac catatattcc tcaatccttt 240

ccacctgggtt tagaggggagc acgtgtaacc aggaggagga gacttgccac aagtcacaag 300

gagctgaagg gcaagtggga cataaatgtt gaggttgaga agcttcagtt taagagtgggt 360

gcaaagacac accgcagctt caacctcaac aagcccttga agcacggggc agcactgggtt 420

cgcaacaggg tcacccaaac caatgtgaac caaccctcca agaagatcca cacaggcacc 480

aagtttga 488

<210> 6591  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080e10a1

<400> 6591

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 ttccgattgc ggactcagca tggcttacta ttttaagacc cgtgaacgct tcactatagg 120  
 aattagtgac gaattctgca agcggggcgca ggctgatcgc cgaacgcctg ttctaatacg 180  
 aagaccacct gagcgcggaag cctagccgtg cgatgtgatg gattgagatg aacatgttta 240  
 gtgaagatgc ggatatttaa gttcataatc aggggaacag ttgggtgagc gggctggcaa 300  
 tacacgaggc ttactcgca gatgggctag ggtatattgc gactacagta gttgacatga 360  
 cagctgggca tgtattctaa ccatgccgat ccaaggaatg atgaaggcac agccgttctg 420  
 caagttatgc tccccca 436

<210> 6592  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080e10d1

<400> 6592

cattcgaatt cattttatatt atatattaat attatattca aatgaaataa aaagatatta 60  
 aaagatacta attataagaa ttgaaaagt aaattataaa gttattaaat gattaatcaa 120  
 tttttttcta cctgttcctg tagtaaaaag agttccatct gttcttgaat agcttccttc 180  
 aaaaggactt ctgcttcccc agtgaatgtc ttggtagaag atatgatttc tttgaattga 240  
 ggtttattcg tgtttaagta agcacgtaac tcaacaagaa atttccttac ctgtccaatt 300  
 tctaataaat caagataacc attcgttcca gtataaatag ttattatctg ttctttcacg 360  
 gtaagaggag ctgattggga ttgtttaagc aactcgcgca atcgttgacc tcttgctaata 420  
 tgattttgag tagctttatc gagatcagaa gcgaattggg caaaagcttc taat 474

<210> 6593  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080e11a1

<400> 6593

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 tggagagtgg cgacctgaga acttattatt gaccgtgacg tgaacgcgta ccactctgtgc 180  
 gtatagtgg agtgattgta acttcccgga atcatggacc tagctagagc gcgtgacaag 240  
 tgacactacg gtaacaactg cacacataga cgctgccctt agacttaatt gtaaagcct 300  
 gaggtgccga ttgaccacgc tcacttacac aaattgtgat gtactccctg tgatcttcac 360  
 ggcaaatcca tcggtgatcc caaaggacta atgaatcg 398

<210> 6594  
 <211> 74  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080e11d1

<400> 6594

gaagcacaat cattactttt taattaattt atattgcttg attttgcaac tcattacttt 60  
 tattgccaat taag 74

<210> 6595  
 <211> 74  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080e12d1

<400> 6595

gaagcacaat cattactttt taattaatta atattgcttg attttgcaac tcattacttt 60  
 tattgccaat taag 74

<210> 6596  
 <211> 399

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080f01a1  
 <400> 6596

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 aatttgga aaactcttccc tcgcgaattt taactgggga agcccaaatt atgggttatt 120  
 gggttgccat ttctcaaacc aatcaacggg gggtgctaaa aaaatactcc ctcaaagtgt 180  
 cccgatttga tgaaaccagg aattttttga acaaaacatt gcgagttatt caatcagacg 240  
 gtccaagctt tttttcaggg accccaagct tgtcaaaatc ttcagagctg ggccctccga 300  
 gtttcaatgc agcttcctta agagtacccc cttttttggg ggctgttttg gcaactgggtg 360  
 gtgccttgtc ataaccaatt tttgggttta aggggtggga 399

<210> 6597  
 <211> 457  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080f01d1  
 <400> 6597

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 acatagagtt ttagttcaga gacccaaagt aactcctaga cgcttctgct accaccaaaa 120  
 aaaacaaact aggctaata ctgcgaatgg gcgcagaaaa aaattattta ggcttcccca 180  
 caaacagatg tatgatgaac acaagaccac attcatgcag gcccgacagt tgatccataa 240  
 tgctgacata acactccctt cctcggaaca cgaggcacac gcttaaactg catggatggc 300  
 actgccattc atattaccac atgtacgggg ttgcatgaaa agctgattgc ctacagggct 360  
 cttatgtaat aagctttcga gacacggagg agggaccoga gtcaccaata gactccccta 420  
 aactcagttg tgatatgcca accagttcat caacatt 457

<210> 6598  
 <211> 354  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080f02a1

<400> 6598

ttttgttttt gtgttttttt tttttttttt tttttttttt tctttaacaa tccatgatat 60  
tattgaatga cagaccattt ttcattggtc cgacatactc tatcaggacg aacctgatgt 120  
caactacaaa gaagactccg gtgatgtcaa caagtgggac tttcgacaaa caccggataa 180  
cacaataaat cctccggcgt tctgtggaca cacaatcatg agggataatt cgcggttaaa 240  
taaagaacgt aggtgcaggg actgaagacg agcctaatac caacggtgcc aggcttgtaa 300  
aaggggtgat ttggtggttt taggaaggaa aaagagtgc aaggactggc aagg 354

<210> 6599

<211> 384

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080f02d1

<400> 6599

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acatagggtt tttgaacaaa gacccaaagc aactcctagc cgctgctgct accaccccat 120  
acacgagcta gggttctcac tgcgcattgg ctccgagttt aaccatttaa gccacccaac 180  
aaccctttgt ttgaaggcca ctagacctca ttgatgcctg cccgcacgca ggtccataat 240  
ggtgacatgg ggaaacgtta actctgtgca cgaggcacgc gctctaactg taaggagggg 300  
actgccactt ttactagggc atggaggggt tgcattgaaca gctgtttgcc tagagggccc 360  
ttccgtggga tgtttccgag acac 384

<210> 6600

<211> 484

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080f03a1

<400> 6600

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gatgatttga cggatattga gaaagaagaa attggtcggg caatagcact ctctctttca 120  
gaggcagata agaaaggga aaaaagttat tgaggacgac tctgaatctg aagatgatga 180

actgtgtcca cttagcgacg aggaagctga atctgttggg gaagttcagc aagatgaaga 240  
 tgaccatcat gctaaaattc aacaggatga agacaaacat cttgatgaag ttcaacttga 300  
 ggaagatgaa caacttgcca gggcaattca agaaagtttg agcattagtt ctctcctcg 360  
 atctgagact gattctttat ttcaaccttt tgcacactta tttccacctg tatacagaat 420  
 ctgttctggc tgtaatgctg agattggcca tggaagattt ttgagttgca tgggagggtta 480  
 ttgg 484

<210> 6601  
 <211> 572  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220080f03d1  
 <400> 6601

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 tgcagaaact gcacatttta tcaactcctca tcagcacccc cctaaaagaa aaagaaaaaa 180  
 aaacggaaaa gaaagatttc tggcaaccgc agactaacag gagcattttt cattccttac 240  
 tagtccggag tagcgtgaaa actatataat tttggaacct ttgaatccta cataatttaa 300  
 aagacaaagt tgatatattg gttggagtaa aggaaagaaa attgtatcat atttctggat 360  
 ttgatttctc taaagcgaat ctttacttta cagagaaaag taagtttcaa ccattgatga 420  
 aaaatcaacg gttcatggat ttgttaaagg ttaacaaaca actctttaat tatctcatca 480  
 acagttgagg ccccttactg tgctctttaa agtgaattac tcactctaaa gggtaaata 540  
 ccatttttca atatggaaaa ctctctgtca at 572

<210> 6602  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220080f04a1  
 <400> 6602

ggcaaaatta agagtgcgat ttgtgggaga atactgtctg ccaaccacgt cttcaaacca 60

ggggacacac attaaattgg gaaaggacca tactccaatc tttagtacc catggatgta 120  
taggcacagg gcatgggtata ggaagtgggtg tgctagaaca gccagttatg agaaaaagta 180  
acccttggcc ctgagtgtgt attagatcta aagaaatcac ggaagtcagt accgtgatat 240  
cgagtcataa tgctcaacga caagctgaat aaaccggaat acttgggtcca agtgctgatg 300  
aaggatatga ctggaatgac cctggattat gcagttaata tcatgcaaga tgtacactac 360  
aatggatagc tggttgtgat tatgagccta ccggcagttg ctgaagatca ctgcctgcat 420  
ctaagatgcc ttggattggt caat 444

<210> 6603  
<211> 398  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220080f04d1  
  
<400> 6603

agacttaata tgctgtgcac ttttttattt aaaaagacga ctatcacatg ttttaaacia 60  
aggttttttg ttcacgttaa tcataaggcc gagtttttca caagaaatat ttgttttttc 120  
tgttctggtt aatataacgc cttcatgacg agggaaactta tgtacacctg caaatggggg 180  
catatgacct ttcaatagca taaataccag ggggatttgt ggttaatctc gccatcagaa 240  
accaccattt gctgggttaa ttggaatgag caatccattg ctttttaact gcatgcagtg 300  
atcttaaaca tcgggttggt ggcagaagat cagcactgac aatccattgc cgtgtgcttc 360  
tcgcatgata ttaactgtat taacaagggt cattccaa 398

<210> 6604  
<211> 620  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220080f05a1  
  
<400> 6604

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ccaaaactcg aagatcttgg tgaggaagcc catggcaaat cagcagaaca tagtggtggc 120



agatggcaca gggcagaaga acatgcccac aggaatagtc ctccataact gcgagatcat 180  
 gccggaccct accctcttgg cagaccgctt gagcgtgaag acttacttgg ccaggccatg 240  
 gaaggcattc tcaagggcag tgttcatcga gaatgttatc ggggacttga ttcagccaga 300  
 tggttatatt ccatggaacc caattgaacc aaacacacag gattgctact tcgctgagtt 360  
 tggcaacact ggaccaggtt ccgttgctca agcaagagcc aagtttggca aaggtctcat 420  
 tagcaagcag gaggtgcac aattcaactgc tgagccttgg ctccaagcta gcacttggnt 480  
 gcctgctgct ggcgttcctt tcgatgctag cttcaccaaa gcttaatgat ccgagacaaa 540  
 ccagcatttt gagtggatg atctcttttt tagcctacct aaattaataa aactttaaac 600  
 aggaaatcgg ttacctaatt 620

<210> 6605  
 <211> 523  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080f05d1  
 <400> 6605

ggcaaattaa gtagtttcca ttaaatagcc aaaagcaaaa ttcccattgc ttctcccatc 60  
 atcagtctat ggtatatgca tactgaagac agagatgaag gggttggttc caaaaaggct 120  
 taaatcataa atatgaaaag cttattgaat gattacaaat tagctcctca gacaatgggg 180  
 gggctatgtg tgactgcctt gaaattaggt aatcgagttc ctgcttatag ttttattaat 240  
 ttaggtaggg taaaaaagag attataacac tcaagatgct ggtttgcctc ggatccttaa 300  
 gctttgggga agcttgcac gaaaggaacg ccagcagcag gcaaccaagt gctagcttgg 360  
 agccaaggct caacagggaa ttgtgcagcc tcctgcttgc taatgagacc ttgcccac 420  
 ttggctcttg cttgagcaac ggaacctggt ccagagttgg caaactcagc gaaggagcaa 480  
 tcctgtgtgt ttggttcaat tgggttccat ggaatatgac cat 523

<210> 6606  
 <211> 506  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080f06a1

<400> 6606

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 ccaaaactcg aagatcttgg cgaggaagcc catggcaa atcacaaca tagtggtggc 120  
 agatggcaca tggcagaaga acatgcccac aggaatagtc cttcataact gcgagatcat 180  
 gcctgaccct acccttttgg cagaccgctt gagcgtgaag acttacttgg ccaggccatg 240  
 gaaggcattc tcaagggcag tgttcacga gaatgttatc gcggacttga ttcagccaga 300  
 tggttatatt gcatggaacc caattgaacc aaacacacag gattgctact tcgctgagtt 360  
 tggcaacact ggaccaggtt tcgttgctca agcaagagcc aagtttggca aatgtcttat 420  
 tagcaagctt gaggctgcac aattcactgc tgagccttgg cccagctag cacttggtcg 480  
 cctgctgctg gcgttccttt cgatgc 506

<210> 6607

<211> 337

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080f06d1

<400> 6607

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 catcagtcta tggatatacg ctactgaaga cagagatgaa gggggcgatt caccagggca 120  
 taaatcataa atatgaaaag cttattggag gattacaaag caactcctca gacaatggag 180  
 tggctatgtg tgactgcata gaaactaggt gaacgatgtc ctgctaatag ctttattaat 240  
 ttaggtaggg taaaaaagcg attataacac tcaacatgct ggtttgaccc ggattcctaa 300  
 actttggtga ggggatcata gaagggatcg tcgacaa 337

<210> 6608

<211> 499

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080f07a1

<400> 6608

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taatcctggc ttacaccttt gctttcttca agatcccact cgtcttgctc cacgggctcc 120  
 agacctacat ccaccccgac tcccaacccc aatccagcaa tggcctcaga gccgccatcc 180  
 gccgccccgg cagcatcgac ggctaccaac ccttgctctc caaaaccgcc gccgaaataa 240  
 aaaagcggaa caagtccaac aacaacaaca acaagtccga ttctgacgaa aacaatgctc 300  
 agattttcag aatcacgctc gaccacgccc acctccagtc cegtctcttc atcgatcagt 360  
 actgctcgc ttctactctc tcctttgctg cccttttcac ccttctctc cacaccttc 420  
 tcgattcccc cgacaatcgt ggggttcttcg ccaacggcgt ttctgctccc ttctcgtat 480  
 caaatttgag tctttactc 499

<210> 6609  
 <211> 279  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080f07d1  
 <400> 6609

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 ttcttatgcc aaaagcaaca tacaacacag ttgtacttga aaatctgata tctgctaaag 120  
 aatgaaaccg tgccaactaa cctgcaaaac ttatgttaca agttcaacac tcctcccaaa 180  
 atgaaagtat tcaaattaca acaaaaggct caccaaaggc ccaataaaat cgcactcagg 240  
 aaaaacaaag gctcaatcca gaaacatata aaacacaat 279

<210> 6610  
 <211> 279  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080f08d1  
 <400> 6610

gaaaggaatg tgaactttca tatgactttg gcctttctat agtcagatta ttgtgtatgg 60  
 ttcttatgcc aaaagcaaca tacaacacag ttgtacttga aaatctgata tcttctaaag 120  
 gaatgaaacc gtgccaacta acctgcaaaa cttgtgttac aagtccaaca cttctcccaa 180  
 aacgaaagta ttcaaattac aacaaaaggc tcaccaaagg cccaataaaa tggcactccg 240

gaaaaacaaa ggctcaatgg agagacatac aaaacacag

279

<210> 6611  
 <211> 566  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080f09a1  
 <400> 6611

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 caagaagtga aagacattcg cgttaagaac tgcacgatgg ttggcacacc caatggcctc 120  
 agaatcaaga catggccaga gtcctatcca cgttcagcat cagctatcac cttcagtgc 180  
 attgtcgtgg aaaatgttaa aaatcctatc ataattgacc aagagtatga ttgcgaacca 240  
 gcaaactgcc aaaagaagcc ttcacttgta aagataaacg atgttgTTTT ttgaaacata 300  
 aggggaacca cacttttacc aattgcagtg gattcaaaga gtagcaagca gttcccatgc 360  
 caagatgttt aacttaagaa cataaacctg aaccttggac ccaagccgtt gggtttctga 420  
 tgtaccaata ttaaaccaga ctatgggggg tgtcaaagac cagcagttag cctataaatc 480  
 ttgacattca agcattttgc agttcttgca ataaggaggg aagggaagt aatggTTTTg 540  
 acaatcaaac caaatgaggg aaacat 566

<210> 6612  
 <211> 474  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080f09d1  
 <400> 6612

acagcatgaa gttttcattc tctggtatTT tgtgataaaa ttaataacca agaatgacat 60  
 actctgaaat ttactcctct cagccagtta atatacatga gttcctgacc caactgttcg 120  
 aaacaacaca caacctctct agattcactc taagaagatc tggcggtagt tgaatggctg 180  
 gtctaaaggg aaatgcttat atttacactt tgagtacata ctacataagg ctagaaaaag 240  
 tgcttaattc acttattcta tatacaattg ctggTTTTTc tatattcaga aaaactaggc 300  
 atggaagtcg attcaattgg ttcaaaatgt tgaaaacctt tccccctact cctgtatata 360

tatgctacat gtgttcctga ttggtttga ttgtccaaaa cattactgtc ccttccctct 420  
 ttattgccag agctgcaaaa tgcttgaaat ttcaagtact tataggcaag ctgc 474

<210> 6613  
 <211> 370  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220080f10a1  
 <400> 6613

cgcagtagta gatacctact ccgagcttga gccgcatgcc tcgctcggag ttcggatatg 60  
 aggctaaagc tgaaatgcgg accttcactc cgtggctctt ttgctgggc tcgaaagtga 120  
 gcggttgcc atgaaggac atgggtttcc ggcaagaacg gctcgacggg tgggacaacc 180  
 acaggcctga gaatgaagac gtgctacagt gcgcactgca ggtggaaact tatatcacac 240  
 ctcgagagac aggtcgacta atgggttgaga agcttattct acacgacaca caggataatg 300  
 gcgagacctc aacctgcact ttgaagtcca ctactatgaa tatgaaatac actatcccgt 360  
 ctaagataag 370

<210> 6614  
 <211> 483  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220080f10d1  
 <400> 6614

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 actctgaaat ttactcctct cagccagtta atatacatga gttcctgacc caactgtttg 120  
 aaacaacaca caacctctct agattcactc taagaagatc tggcggcagt tgaatggctg 180  
 gtataaaggg aaatgtttat atttacactt tgagtacata ctacataagg ctagaaaaag 240  
 tacttaattc acttattgta tatacaattt ctgggttttc tatattcaga aaaactaggc 300  
 atggaagttg attcaattgg ttcaaattgt tgaaaacctt tccccctact cctgtatata 360  
 tatgctacat gttgtcctca ttggattga ttgtccaaaa cattactttc ccttccctct 420  
 ttattgccag agctgcaaaa tgcttgaaat ttcaagtact tataggccag ctgctgggtct 480

ttg

483

<210> 6615  
<211> 352  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220080f11a1

<400> 6615

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aaatcctgtg cgggggcttg ttgggtctca tgatgcacct gtctatgacc agcccccata 120  
caaagtgttg ttcaaagcag tggtctcagg ggagtatact tattgcgact aaggatctct 180  
ctggacctcc aaacagctca aagggcatgg ctactgcctg atttaaatac catcttcaac 240  
tcttggtgac tctggagagg cgatctatgg gaaagaaccg tcttctgcac tcttggtctg 300  
gagcacggtc ccattcttga gacaaacacc ggggttctat gacacagtgc ac 352

<210> 6616  
<211> 489  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220080f11d1

<400> 6616

agaataaaca aggaaaagg atcctcatat tatgcttaca aaataacctg tcctcaatct 60  
catcccatgc actgatgcaa gggtagtata ataataacta attgttatat acatgattat 120  
catagattac aaatttaca ccattaggct gcttgcacgc tcacagttga atcacggctc 180  
ataaccacgg cggattcagc acctacttcc tcctcagcag gtagatcatc tgaatgcagt 240  
tccggttgct taaggctccg gacaaactca gtgaacaaag gaaaatgctc tggagagaag 300  
aatgatgctc ccattctatg atatgtgaac aagtccaata cattatctcc agataaattc 360  
ttcttaattt gttcaaacc ccttgaaca ccagattcag acgaattttg acctgaaacc 420  
tgaacctcat gctttttgca agcttccata atttgtgcaa gtagcaactc agggctagaa 480  
tggttttcc 489

<210> 6617

[illegible]

<400> 6617

<210> 6618

$\langle 211 \rangle$       121

<212> DNA

<213> Glycine max

<400> 6618

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gattttttttt tattttttttt tttttattttt tattttattta tttttattta tatatttaaat 120

t 121

<210> 6619

<211> 369

<212> DNA

<213> Glycine max

<400> 6619

gccacgcata ataattccac agtccttact gttacaaaat gacaggggaac aatgcgagca 60

ttaaatacgaa cctatgaaac ccgcgtgtaa tatttgaagg aaacacccac ccactctcca 120  
 ttgaccttcc ttattacgga tttggaacag aagaatgctt ataatggggg caaaaacact 180  
 aacatatgct ctctattgga aataactagg ggctgtctca tttagagcca gagaaatcgg 240  
 catcaatgac atcaccgggg gggttccttg ctgaggatac tgagggggcca gaatccgcac 300  
 cgggtggagt tgatggccat tctgcgcctg catatcctgg ctggctgcaa agggactgac 360  
 caatctgga 369

<210> 6620  
 <211> 529  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g01d1

<400> 6620  
 cccaagacat gcttgagatt ttattaactt cagataaata tacatatttc tttaatagag 60  
 gaaaaagaca taatattctt ggcatctagg aaatttgatc caacttgggtt ggaacatcaa 120  
 ttttaacttga attgatttaa gacttattaa ttgatcattc tgcaggcctt tctaacctcc 180  
 tgtccaccat tgatgctact cattctgac atggacttcg caaaagcctc ataaaaagcc 240  
 ttttttgagg tggcaaactt tgtaaccaga ttttttagtgt ctgggttggtc aagcaaaact 300  
 tgatcagaag aaaacaagcc tttctgttgg aggatcaacc tgtaatatgt attatcaaaa 360  
 gttgttgttg aagggtccat agagggtgcct gcattttttg cctgattttt tagtggacaa 420  
 attgagatca gttttgtgc caatgatgga tttaatgaag ggtcaacatc atgtgttgca 480  
 ttgaagtagt ggattctgtt ctttgaagaa gagcagtggag agaaaccca 529

<210> 6621  
 <211> 511  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g02a1

<400> 6621  
 cgaattgcga agtgaatttg acagatgaga gaagcgggga aaaacaaaat cctaaatctc 60  
 ttcttgagtt attgagattt atgaatcatc acacatatat acatatttat tcttacggag 120



atataattta ccatgaattc gagtatacac ctaaattgat attcatgata gtagaccgaa 180  
 taaaactagc gaggcttggt tgatgactct tgagactctc caaacttcgt gctgtacacg 240  
 atgccacgat tctgcagtat gtacattttt ggccatttta acagcatcat cgattccagg 300  
 gaaagattga gagccgtagt cattatgttt tgatgggtcca taaatcaa at gcttatacca 360  
 tgacattcca aagaggccat ctctgtcagt gaatgcacgc tcagccatca tcaatctatc 420  
 attcagctct ctcaactctca agtgggtcctt cttacctgtt atccaacctt taccagcttc 480  
 tattaccttt ctctggctat ctatcttgat t 511

<210> 6622  
 <211> 557  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220080g02d1

<400> 6622

tttttttttt tttttacaca caaattaact tctttatatg aagcacttaa atatatcaaa 60  
 tacaattaat tcctagcttg caaccagttc aatgaaaaca aaataagggg gataaaatac 120  
 aacagatgaa tattcgttgc ttcaacatct acgtgtcata taatataaat gatcacacca 180  
 taatctgaac ttgaccata attcaccgtt cattgaacag ggaacacatt cctcaactgt 240  
 ttcaccatgg tggggatttt tttcacagtc aacaaatttc gtaaaccattc acagggcagt 300  
 cacatgaaaa atatgattaa actttttaaaa cacyccccac aagaaaagag aagaaatcaa 360  
 aggacagta gagaaaatta aaactccttg gctttttgct actaaggggc cacctccagt 420  
 cttgaatcta tctaaccatc ttgacctca actgcatgtc ttcttcatgt acaccactct 480  
 ctctgtgaaa cacanattct taaaacacgc tcttacctgt ttctaccaa ataataatc 540  
 aatcactgca aggtttt 557

<210> 6623  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g03a1

<400> 6623

cttgcagtcg cagaggaaaa ccctagctag tagtctcagt tcgtttgaga gagaaaaaat 60  
 ggcagaggggt ctcgtttctcc gcggaaccat gcgcgccac accgacgtcg tgacggcgat 120  
 tgccactccc atcgacaact ccgacatgat cgtgacggcg tcgcgcgaca aatacatcat 180  
 tctctggcac ctcaccaagg aggacaagac ctacgggtgtc ccccgccgtc gcctcaccgg 240  
 acattctcac ttcgtccagg acgtcgtcct ctcatacgac ggtcagtctg ccctctccgg 300  
 cttctgggac ggcgagctcc gcctctggga cctcgcgggg ggcacctctg tccggcgctt 360  
 cgttggccac accaaggacg tgctctgctg ggcgttcttc atcgacaaac cgtagatcgt 420  
 gttggcctct cgtgaccaga cgatcaagct gtggaacacc ctgagtgagt gcaagtacac 480  
 a 481

<210> 6624  
 <211> 539  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080g03d1  
 <400> 6624

aattgagatt atatctcaac catattctga agtaaagata atattggtaa ccggagaaaa 60  
 acaaagatgt tgaaatatcc atgtaacaag taaataacca aaacgaacgt tttaaaaaat 120  
 aaataaaagg ccttagtgcc tcggtcttca acataaaaaat gaattctaca gtaaagcagt 180  
 aactaacttt gtcccaaaac ttaaaaacag attcgcattc gaaaacacta aaaagcttaa 240  
 cctaataacg tccaatagcc caaactctga ccacaccatc ggtatagcca ctaaacaaag 300  
 tgcttccatg cgcactccag ttcaaacttg tgcaataaat aacctttctc ttggtggcgt 360  
 taccaccacc ggaggtggca tcagcctcag tcttgaggtc aaccttcaaa ttctcaacga 420  
 tactcttgct ctccaaatcc cagatcttga tgctctgctc ggaggcggcg cagagccaat 480  
 acctgttggg gctgaagcaa agtgcattga tgattgagcc agcatcgaga gagtaaaga 539

<210> 6625  
 <211> 330  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080g04a1

<400> 6625

caagagcttg atccccctgcg cgagtgttgg cgagaggaac ctgctagctg acgtggcgag 60  
gattgttgag aaaaacggca cgtcgtttta gcgaaaagac gatttgagga aggtcgctgc 120  
agaagcactt tctctctctg gctacgattc ctctatctgc aaatcgaagt gggagaaaaac 180  
tttctcttgt cctgctgggtg aggatgaatt catcgatgcg attgtggaag gggaaaggtt 240  
gattgtcgat gttgatttta gatctgactt tgaagtagcg cgaacgactg gaacttacia 300  
tgcgatgctg taatagctgt cgttcaccta 330

<210> 6626

<211> 415

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080g04d1

<400> 6626

atgacgtacg tgcgtcgcg gtaccaggtt ccggaattga ttcccggagc tacctgctca 60  
ctggccggcc gtcgcccttt tttttttttt ttttttttac attggtgcga accaaaaatg 120  
gacataagaa tagtaggcct tcttaciaag ttttccctta cgaccaaag atgggcaatc 180  
ggaaaaactc aatactacac acagagacag ggggattccc tcttcagagc ctttctgtca 240  
agatgctaaa ttctaaatc ccactttgta cactaaacag acacaactct gtgagcaggt 300  
ttatgatagc tactcgggaa gaggggggaa atcggtcact cccttaaaag atccatcact 360  
actctccgga ttccccgggg ggggttgcca catacgatct ttcttaatgg aaaaa 415

<210> 6627

<211> 478

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080g05a1

<400> 6627

tcccttcaca ccattctcac aaaacaactt tcaaactctg agaaagaatg gctgccaaca 60  
cattgatgag tactgctatc tcagccttcc catctctcct ttcttctca aaatccagat 120  
ttgccaccgc agttctctt tctagctttg gtgtcaccaa tgctcttct tctcgctttt 180

ctatgagagc tgactggatg ccaggccagc ctagaccttc ttaccttgat ggttcagcac 240  
 ctggtgactt cggattcgac cctcttcggc ttggtgaagc accagacaat cttgagaggt 300  
 tcaaagagtc ataactcatt cactgcagat gggccatgct tgctgataca gggatttttg 360  
 ttccagaggc attgggctta tgcaactggg taaaggctca ggaatgggca gcatgttctg 420  
 cgggccaagc cacctaccta agcaattcag atccatggag caccctaccc accattct 478

<210> 6628  
 <211> 493  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220080g05d1

<400> 6628

aggacgtagc gtcggtangc gagccccaat taggaaccga ttcgacgagc tcaactgctcg 60  
 ctggccgggc gtcgcccttt tttttttttt tttttttttt tttttttttc aaggcaaaat 120  
 ctattgggga ataatgatgt tttcaatggt tttgtgcaa ggaaaaaaca agtgatcccc 180  
 ctctttctcc aaagggtctt tgccgggaaa cgcggtattg ttgaaccggg aataacagga 240  
 aaccctaaaa accaagacgc caattttcaa gttttttttc tgggaatgca tggaccgctt 300  
 tagggccctt aaaggaaacc aaggggtgga aaccaccacc aggggattcc ttcttccttg 360  
 ggtcctttta aaaacccctt ccttgtttta aaaaggaaat agcctggaaa aaatggggcg 420  
 tattgggggc acacggagcc ccaggagagc ttccccgctt aggttgccag attggccccc 480  
 agaaaccgct ggc 493

<210> 6629  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g06a1

<400> 6629

ctcgagccga ttcggctcgt gttttatctg tgcgacttga gcatactatg ctcggggaat 60  
 tattgaagaa tactgagcaa gatctcaatg aagcctactc tactgtcgag gacaaggcac 120

ttctataaga gggctgtgtt ataactgtgg tatctcttga gaactcgatc agagatcgtg 180  
 actctaacag agagagtagg ctgtagggct ctggagaaaa agaattagag actcacatct 240  
 cagatgcagt tatcattaag agctctgagg ggacgtgata gagaaaagga gagagttggg 300  
 ttcgaaatgg aatcttttat ccacgagcaa tcattctatgg agaaccagac atcgtcattg 360  
 ggaacactga tcagt 375

<210> 6630  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g06d1

<400> 6630

gcatgttcct ctatttgact ctcatctctc attcttatat acttttctta taaaaacca 60  
 gagcattcat attcaaacac aaccatgtta ccccatcct cggtattgga acttctaaaa 120  
 ttgctttata gaaacaacac tatcacatat ggaccttac actgatgttc aaattacata 180  
 aaagctttta aattacaggc attacctaca tttctagggt cctgaagat gaacacaagt 240  
 gcaagacttg taacagatcg gtgaagcaaa cacatcattt gctttgtgta gctgcaacag 300  
 ttgctgaac agttgaaaca ccatccacaa atttgtccg gaaaagaaca tttgcattat 360  
 tgaacatgcc ttccttcaag gaaaccacaa taaactgaga gtgcggaaag tgagccttta 420  
 tcattctccc tatgtttt 438

<210> 6631  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g07a1

<400> 6631

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 cgatagactt ttaaaaccta ggtggatact ttgtttggac atcaccgctc acaaagtctc 120  
 gtaacaaata aaatcagagg aggtggaagt ttatgcaaga ttttacatta actctttgct 180  
 gggaactgct gtcacagcaa gatgaaactg ttgtatggaa gaaaactagt ataaaaagtt 240

gctatgcata aagaaagtct ggatctggcc cttctttgtg tggtagaggt attgaagggg 300  
 agactccata tgatcgagaa ctgcaaaact gcataggtgg aatacagagc agtcgttggg 360  
 t 361

<210> 6632  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g07d1

<400> 6632

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 tcagtggtcg gccgtcgccc tttttttttt tttttttttg gtcacaaaga cgaataatat 120  
 gagtttgatt tcacattata aacattgaca cactattaag tgcagtgatg ccaagcttat 180  
 acaacaaaca tctaacaacc tatagaaaga taggctttaa cataatcata catgggggaa 240  
 taagccacgg atgcggtgca caacaatcac ttataaccgt gttaaccaa gtgatatgtg 300  
 tatgtgagta ttacacggga gaggaatgaa caccaccccc atactggatg gtcactctgt 360  
 actgaggctc gcgtggacag aacgagggtcc tatgaaaaac ttgccggtcc tattatgaca 420  
 ggggggtcac ataggaacg atacacaatt ctctttataa gccgttgatt 470

<210> 6633  
 <211> 532  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220080g08a1

<400> 6633

gattggtggt aatggcagcg ttactacaag cagcagctac tttcatgcaa cccaccaagt 60  
 tgagcaggag caacactttg cagcaaaagt ctactcagtc catttccaag gcttttggtt 120  
 tggaacctgt tggagctaaa aaggtcacat gctcccttca ggctgatctt aaggacttgg 180  
 ctacaagtg tgttgatgct accaaaattg caggattcgc ccttgccacc tctgccctcg 240  
 ttgtctttgg ggcaagtgt gaaggtgttc caaagaggct aaccttcgac gaaatccaga 300  
 gcaagaccta cttggaagtg aaggggacag gaacagcaaa ccagtgccca acaattgatg 360

gtggattgga ctcatTTGCC ttcaagccgg ggaaatacaa tgccaagaag gtgtgccttg 420  
 agccaacttc attcacagtg aaggccgang gtgtggccaa aaatgctccc cttgagttcc 480  
 aaacacaaaag ctcatgacac gtttgaccta cactcttgat gagattgagg ga 532

<210> 6634  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g08d1

<400> 6634

aaaccttgaa ttttaaacaT tgtaattgga ggtcgatata atatacaacc atgacagtac 60  
 tctcagtagt gctaggaaag ttgggtcaag ggataatgca gcaacaccat gcatgaagtt 120  
 actaacaaaa tctgagccaa caaacaaaac agaaaacaaa acactctatg actcaagctg 180  
 agcataccag atgccctgga tcttgacatc ctttgaggcc ttgctccca aatcagtgtc 240  
 agatggttga acactctcga acacaccgat aacctcacc gtctcatgct tggctcttggT 300  
 gacacttaaa gtgattttgc cccttgaata ataaggactt ttaattgggtt tccttggcaa 360  
 gttcttctc atctctctt gcaccagcag gcaaagcaac tgcattgaca taacctgtgg 420  
 aagcacctct tcctttgagg tccaagaaag agctttcacg gtaggatggg actagaaact 480  
 cccactaaa gc 492

<210> 6635  
 <211> 96  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g09a1

<400> 6635

gaaaagattt aggatgaaga acaattaagc tttctcatca tacgggggct gaagcacttc 60  
 ttgtgctggc taaacatgca ccaatatttg aggcgt 96

<210> 6636  
 <211> 521  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220080g09d1

<400> 6636

gattcggact catctgatnc agatccggat agactagata tcacgttcga cgcgctcact 60  
cgtcagctgg cgaccttgat cgtgaaatta ttttttttct tacattaaaa tatgggttgt 120  
agaggtggtg aaaaaagaat aggatcttaa cctgatagtc actaacacga gccatgttca 180  
atcagaggag aatattggaa gataaagagc accaattgga cactaaagat tttccctact 240  
cggcctttca ctacaaccag aagctcttgt gggacaaggg tgaagattac gagggcatgg 300  
tccaaaaact taaagttgga ctagtagtgg tgctgtggga gttccaccac cttgctgtga 360  
aattagggta agaacactag ggggcgcca tgagtggaat ctgatcatga catgcttggc 420  
gtggaagctg ttggaactgc cgcctctaata gaggagaacg gtgtgggtga ttcttaccag 480  
ggttgaaatc tggaacccta atttgaatga cctgatgcct c 521

<210> 6637  
<211> 154  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220080g10a1

<400> 6637

cggcagcatg cagatacaga acatcgaacg cagcagcacg cgtgcgcacg ctcgtaatct 60  
gggatttggg ctagcgccaa gtaactggta gatttaatac ttgagtaaca agatcgctcg 120  
ggccttaatc ctggctcttt catccctaga ctgc 154

<210> 6638  
<211> 473  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220080g10d1

<400> 6638

gttaaaagca agtaacatta agttggattc ggatacgcaa gattattcac attatctgaa 60  
gtacttcacc aatcacaat cgaaaaactc ttaaaagtca tttcggctctt tgacgctcac 120



tttccgggga cgaagttggt ggcataggcc caggcgttgt agttggcagg ggcagcaagg 180  
 tgatcggaga ggggtctacaa tggacccttt cgggggacaa tggcccgaac gaagaagcca 240  
 gacctataga acatggccaa tcgtacgata ttgggttctt tcattcttaag ctcagcaaaa 300  
 gcctttgggt catcagcaag gcccaatggg tcgaaactgt cacctgggta gattgggtca 360  
 gtgacctgac cgagggggcc accagcaata cggttacctt cagcgcgacc cattatgaga 420  
 acttgtgtgg ccacatggt gaggatgctc tgggcgtgga tcaggcttgg gtt 473

<210> 6639  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g11a1

<400> 6639  
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 gtttcggagg ctcagccatg tctcttctgc tcagggccga gcggacagta ctatgaatct 180  
 tcgagatcga tgttgacagt atggctcgagc tactgtccac ccacgaacct ccagcctgag 240  
 gtcagaataa aacaagaacc tggatgtgag ttaccagatg atcgatgtct atgattacta 300  
 atgggtacag taacggggga ggggtgcgagg gtctctttaa tctagctgga ctgaaacggc 360  
 ttggaaggcc tc 372

<210> 6640  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g12a1

<400> 6640  
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 cttggagagg caggactgca ggtgttacgc ggtgttgagc acgaggaatg cgcgtatgag 120  
 ctctcgacag atgagttgtg cacaaagatc tcgtgctgtg aactattat agtgaggagc 180  
 ggtacgaatg tgacaaggga agagattgat gctgacaaag gaaggttgaa ggttgtggga 240

agagccggcg tggggattga ccacgtggat ttgcaggcag ccaccgaatt tgggtgcctt 300  
gtcggtaatg cgccaactgc aaacactatt gacgatgccg atcatgggat tgctcttctc 360  
gctgacatgg cccgaaacgt tgcccaggct gacacctcca ccaaagctgg caaatggcag 420

<210> 6641  
<211> 490  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220080g12d1  
  
<400> 6641

gcacactact agctgcaaac agctagtttt attctgaatc atccaatcca aattatatta 60  
cattcgcata ccatagcttc aagtttcctc aaattgtcca tcaaaatacc tcttctacgg 120  
tgtaaaaaca gatctagatc atctgaagtg catgtgcact tgagaattgt caaaaaaaca 180  
aaaacatttc ttataacca aaatagtagc tattttactt tctaaaacgt accatccata 240  
gatggtaggt agatacgcat gattgtttgt ataccattac attatcaact agtactagag 300  
cttgaggaag acgaactctt caatggcaga cacggctcca atattgtcaa gagcctcctt 360  
gtttggttct tcatcgacac caatagccat aatagccttg ttctacgcg atgtccttcc 420  
cacactcata aagctcacat tcacgttttg ttcaccaggt atgtttccaa cacgaccaat 480  
catgccgggc 490

<210> 6642  
<211> 508  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220080h01a1  
  
<400> 6642

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agaaacagtg agtcttctgt atgtgacca caatcacacc ctctacatc actccaacta 120  
attactttgc ctactttttc aacaaaaaat agaatcgaga gatttgacca tgatgctttt 180  
atgtggtaga taattaattc tacacacaca gtcattagtc agtctaatta tagttctcct 240  
aactagttag ggaacttcct agtttgtgtt cttggtttgg atcttggtcaa attccagggt 300

ctttttacct tgtaacttgt ttgttacata gtgtttactg tactctccat gattgtatat 360  
 tttataacttg catgggtggt tttcatccac aaactcaggc attggaccaa gctccacttc 420  
 atagctagga gcaaaaaatg tcacaattga gagtctagct ttctcctcat gagccacagc 480  
 tctatgctcc acactcctgt atttccca 508

<210> 6643  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080h01d1

<400> 6643

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 gaggggggggg aaaaaaacct tgtccctggg gttttgtgaa ttttgaaaaa aacccccccc 120  
 ccggagaagg gggggctttt ttctaaccac cccccccatg gtggctcctga ccctaaaaaa 180  
 aaaccccccg ggggaaaaaa aacaaaaaaa agggggggaaa aatttgtggg gaacccccaa 240  
 gggggggacat ttgggaaggg gggccttcaa gggggggggg gggaaaaaaa gggggggggg 300  
 gcaaaacgct ggaaaagggc ccccgggggg gaaaactctt tcccccttta aaaaaagggg 360  
 gccccagtt taaggggggt acaccggtg gggggg 396

<210> 6644  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220080h02a1

<400> 6644

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 ataaacattg atttttttgt aaggggggga caatcacacc ctactaaaaa ctccgactaa 120  
 gggctaagac tacttttggg acaaaacctt ggaatcgaga gatatgaaca gtgatgctta 180  
 aaagtgggag ataatgaatt ctacacacac agtcattagt cacactaatc ctaacccttc 240  
 taactagata gggaaccccc tagggggggc tcttgggtggg caccttgaaa aagtccaaag 300  
 tcacccacc tcgtaacttg tatgtcacat aaagaaaact gtgctcttcc cgaccgcct 360

002220.FTF550

ttatatacta cccacggctt gttttgatcc acaaactcag gcattggacc aagggggaaa 420  
acacaccttg gagccc 436

<210> 6645  
<211> 506  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220080h02d1

<400> 6645

cacacacaaa ttaacttctt tatatgaagc acttaaatat atcaaataca attaattcct 60  
agcttgcaac cagttcaatg aaaacaaaat aagggggata aaatacaaca gatgaatatt 120  
cgtagcttca acatctacgt gtcatagaat ataatgatc acaccataat ctgaactttg 180  
accataattc acccctcatt gaacagtga cacattcctc aactgttaca ccatgggtgg 240  
cattattttc acaatcaaca aatttcataa acatccacaa agcagtcaca tgaaaaatat 300  
gattaaactt ttaaaacacg ccacaaaaga aaagaaaaga aatcaaaggg acaatagaga 360  
aaattaaaac tccttggtt tttgctctc agggggccacc tccactcttg aatctctcta 420  
acactcttca cctcaactc catgtcttct tcatctacac cactctctct gtgaaacaca 480  
aattcttaaa acaccctctt acatgt 506

<210> 6646  
<211> 306  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220080h03a1

<400> 6646

tgctcgtcct atctagctta ccaatacaat ataaaaacat tattgttgaa cattacatct 60  
atatatgggc aagctctttc tcatccactg actaattgga gactgccttt tgtactatat 120  
atccgcttgt gcataggaga actaatctga catcataacc tgaaaccccg ctateccctc 180  
atgtgtcgca cagccttagc cagcatctac caaacataa tcatcgcta tatgctcaac 240  
cttaactacc ccacgatatg gccagaattg acaccacagc gccagccaca gtggcacata 300  
aacttg 306

<210> 6647  
 <211> 531  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080h03d1  
 <400> 6647

aagttgaatc aaagactttt aattacacgt acattttggt gccattttac aacaaataat 60  
 tatttttttg tacaacaaa caattattta agctataca ggatattctt cgcgtcctaa 120  
 aaaaaagaaa gaaagtagag gatatccaat caatattcct tcgacccctat ctaccatcta 180  
 tcacgaatc atcgatcgga tccagctcct tcgaagttgg atccctggac aaaaggaatg 240  
 cagacagtgg acaaaggaag aggaaagtac agcaacttgt gtaccctctg ttcaaggaaa 300  
 cacccaacat gacaatttaa ttcgctatc ttttatcaac aacctgttat cccgttttgg 360  
 aaacaaccaa gaaaccacaa ttcctcccca cacattcggt tgagacacct tctttcttta 420  
 gagtattcat aaaccttcat caaagggcac gccactcccc ggaatccacg atccccacg 480  
 caagaaattt tcaacggtga atttcacagc ctcagtactg gagatcactc g 531

<210> 6648  
 <211> 289  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080h04a1  
 <400> 6648

ggctcatttg tgcagattgc tattgcaatt ccatatgcaa agcggaaaca ataagttgtg 60  
 ttcatgaaaa acaactctgt tgacaatctg tccttgcatc ctgctcaagg tagacaaact 120  
 ggaaagcaac atctacatct ttcgtcagt caacgaataa acggactctt atgactgtga 180  
 tcttggcgat ggtacgccta tggccatatt atatttatac tctacctgca aagcatgtca 240  
 aggagtagtc ctcaaaacgg agatgatcgc aaacccaca ctctttttg 289

<210> 6649  
 <211> 394  
 <212> DNA  
 <213> Glycine max





ccggatcttc tctactacgc cgccgctctc tacacaaccc accgcgcctg ccgcttcaag 300  
 agcatatgga cctcattaag cgggacctgg gacgaagtcg cggtcggtac cagccaaagc 360  
 tgcgctggct gtatctttat atgagccttc gtcgaggacc tagacagcac tacagcagtg 420  
 ccgatcatgt gcttttttcc gttgcgtgtg ggcaacggac tgaccttctt gaacaccact 480  
 tatgtttt 488

<210> 6654  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080h07d1

<400> 6654

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 ttctgcgcac attgatctta taacaaataa aacccaattt aaatagtcct cataaaccac 120  
 ccctagaaaa ctgccttaac tgtatttatg ccgaacagcc cagagaaaac aagactggat 180  
 tcttcagcct ttacctagtg ttgaaaagca ggcaaacgca atctacatca tcttgcgtaa 240  
 acgtgtaatg atctaaacac aactcgttta tagaacctcc ggtcccgaa gaataatgcc 300  
 ataccgacca aaaactcaag aaaagcaaca cgctgcgatg aaaaaaatg acggcgtaga 360  
 acagaggatg ccaaagcacg aatgatcttc tttat 395

<210> 6655  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080h08a1

<400> 6655

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 acaactacaa cagcaatgac ttttggaat ttagtgacca gctgaggctt gaatctggtt 120  
 cggccaatct gtctctgaat gattattcca tttggagcaa cagctacagc tccaagaggc 180  
 ctgatcagag gaggaacttt gatgtcaagg gcagtgattt caacaactca tcaaagcctt 240  
 ttgatgacga tttcaatgat ggttggaaga tcaccaattt caatggaccc cttttctcta 300



tgctgacat caacaacact cacactcttg aagttggagg cttcaacaag ggaggaatct 360  
 attacaacac caacaccagt tactacttat atgctaacca taacaacaac actcttggag 420  
 gcttcgacaa gggcaattat tccaacacca catactcgcc ctatcttaac ctttaaca 477

<210> 6656  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080h08d1

<400> 6656

gggcaaagtt gtgtccttct taatggcatg tttttatggg aggttcaaatt acccccataa 60  
 caagaaaaaa tgggcgaacc aggactaaaa ggccatttgc caaaaacatt ctagcaattg 120  
 taccaaatac attttaaagg gttggaattc agcataaacg tccccaccca tattttaagt 180  
 ggccataatca tggtcggaca ctttaaattt atgggccac atgattcatt cattatccaa 240  
 tggggccgaa acctttctat ttggaaaatg cttacccttc tatgctggga tggcttcaaa 300  
 aagggcatcg aaactgtcat gggtagcaaa aat 333

<210> 6657  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080h09a1

<400> 6657

ggagaacttt acggtgcaga agatatgtgt tatggataca gcacaagatg aagcccaagc 60  
 ttaagaagac gagggaagga ggaccacaat ttgaggggtg gagatcatcc cccctcagt 120  
 tgagacacgg cgctgcagca gtccctcttg gtttttcccc cttccatgca tgatcgctcc 180  
 tgagcatacc ctgtgcgcca ctcttgtgtg cgtgcctact gacctctcct gcgcatgtat 240  
 ggcatacacc agcgacatt tcatcaacaa ttatgtcccg ggcgtgtttc acaccgacgg 300  
 ggcaattgag tggagccccg tgtaacacaa cgcacgggag tgtgtgtgat tctggttgag 360  
 cagcagagta ccagcgacg ttgcttctgc aatacc 396

<210> 6658

<211> 171  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220080h09d1

<400> 6658

ggtaacggtt atttagctga tccgtcgtaa ctcaagagag acagacggaa aaaccttcgc 60  
accgcagagc aaacactgga gtcccgcccg accctaagag acccccttag gcccaatcca 120  
atctgagact ctgagcacca aagcgacgct gatagagaca gaaagcgacg g 171

<210> 6659  
<211> 258  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220080h10a1

<400> 6659

tatggattgc ttcagctcta tatgctgctg ttaacatcgg acagcatcca tatggaggtt 60  
caattctgaa taggtcaact attagcaaga gactcatgcc tgagaaaggg gtcctgaat 120  
atgatgccgt ggataatagc cctgagaagg agtttctgac gactatcact ggcaagacag 180  
agaccgtcat tgcccttacg cctatagaga gagcatcctg gcacgcattg gatgagtttt 240  
accgtgcgca gagagatg 258

<210> 6660  
<211> 163  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220080h10d1

<400> 6660

gatcgagta atcacgatcg gatnctgata gactaaatat gaggttcgac gcgctcactc 60  
gtcggctgcc gacctttttc ttgaaatata tgttaactta gctcaaacct ggctgatgac 120  
gtggataata atgaatagca tttcacactc atggtcactt act 163

<210> 6661  
<211> 350

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080h11a1  
 <400> 6661

ccaactacga ggaatttggg tctttgggtg aaaagccac catcctggtc ttcgagagac 60  
 ttggagaggc aagactgcag gtgttacgcg gtgttggaaca cgtggaatgc gcgtatgagc 120  
 tttcgcagga ggagttgggc acgaagatct cgtgctgtga cgctcatata gtgaggagct 180  
 gcacaaacgt gacatgggaa gtgtttgaag ctgccaaagg aaggttgtag gttgtgggaa 240  
 gagccggcgt ggggattgac aacgtggatg tgcaagcagc caccgaattt ggttgccttg 300  
 tcgataatgc gccaaactgca aacactattg ccgctgacga gcatgggaat 350

<210> 6662  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220080h11d1  
 <400> 6662

gcacactact agctgcaaac agctagtttt attctgaatc atccaatcca aattatatta 60  
 cattcgcata ccatagcttc aagtttcttc aaattgtcca tcaaaatacc tcttctacgg 120  
 agaaaaacag atctagatca tctgaagtgc atgtgcactt gagaattgtc aaaaaaacia 180  
 aaacatttct ttataaccaa aatagtagct attttacttt ctaaaacgta ccatccatag 240  
 atggtaggta gatacgcatg attgtttgta taccattaca ttatcaacta gtactagagc 300  
 ttgaggaaga cgaactcttc aatggcagac acggctccaa tattgtcaag agcctccttg 360  
 tttggttctt catcgacacc aatagccata atagccttgt tctacgcga tgtccttccc 420  
 aactcataa agctcacatt cacgttttgt tcaccagta tgtttccaac acgaccaatc 480  
 atgccgggct ga 492

<210> 6663  
 <211> 509  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<223> Clone ID: jC-gmf102220080h12a1

<400> 6663

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 tttgttcttc ttggagttga ataatgcctc actcattttc tgtgtacttt ctgagagtac 180  
 tatggatgat gtgcttacga cctgctaggt tgtttactgt ctggtgtatg gaacactgta 240  
 ggatatgctg cgcaattgac actctttgca gggacgttgt ttgtgctacg aaagaatttt 300  
 agtggtctgtg accgctctta tatttaggcg cgggacaaat gtgatatggg aagtgttcga 360  
 agctgcctaa ggaatgttgt aggttgtggg aagagtcagg gtggggattg acaacgtgga 420  
 tttgcacgca cccaccgaat ttggatgtct tgttgtttat gcgttaactg aaaacactac 480  
 agacgattgc gaacatggga tcgctcttc 509

<210> 6664

<211> 491

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080h12d1

<400> 6664

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 tgtaaaaaca gatctagatc atctgaagtg catgtgcact tgagaattgt caaaaaaaca 180  
 aaaacatttc tttataacca aaatagtagc tattttactt tctaaaacgt accatccata 240  
 gatggtaggt agatacgcat gattgtttgt ataccattac attatcaact agtactagag 300  
 cttgaggaag acgaactctt caatggcaga cacggctcca atattgtcaa gagcctcctt 360  
 gtttggttct tcatcgacac caatagccat aatagccttg ttcctacgag atgtccttcc 420  
 cacactcata aagctcacat tcacgttttg ttcacccagt atgtttccaa cacgaccaat 480  
 catgccgggc t 491

<210> 6665

<211> 492

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220081a01a1

<400> 6665

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catgaggatt ttttaactctg atggtagtga gcctgagatg tgtggcaatg gagtgcgatg 120  
ctttgccaaa tttgtttctc agcttgagaa ttttaacatgg gagggatagt tttaccattt 180  
atactggtgc tggctctgatt attcctgaag tcttgaggga tggaaatgtc agagttgata 240  
tgggggaacc aattcttaaa gcctcagatg tgcctactaa attacatgca aataaggata 300  
atgctgttgt taaatcagaa ctagttgtag atggagttat ctggcatgtg acctgtgtca 360  
gcatgggaaa tccacactgt gtaactttca gtagagaagg aagccagaat ttgcttgttg 420  
atgaattgaa gctagcagaa attggcccaa aatttgaaca tcatgaagtg tttcctgcac 480  
gaactaacac ag 492

<210> 6666

<211> 488

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220081a01d1

<400> 6666

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aaaatagtaa gaacaagcag aaagtccacc tctcatacaa atattattca gcaattccta 120  
attccatatt gggtttaaca atgggggcaa catattaaag gggcaaagat ccgtaataaa 180  
ctacatcggc tgagcctgtc atataaacat gattatcttc ctccctccat tcaatctgaa 240  
gaggtcctcc aggtagatca accgtgcaat tcctcccagc acgaccctca agaactgctg 300  
caacaacagt agcacaagct ccagttccac aggctagggt tgctcctgct ccccgtccc 360  
agacacacat tttcaagtga gaattagaca acacttgtag aaactctgtg ttagttcgtg 420  
cagggaaacac ctcatgatgt tcaaattttg ggccaatttc tgctagcttc aattcatcaa 480  
caagcaaa 488

<210> 6667

<211> 556  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220081a02a1

<400> 6667

aaggatata tgcagtgggtg gaatgaatgg ttacatatcc ttatgtgggtg gagaaccttg 60  
 ccctcctatt tttaggtctc ctattgcaag catggaagat atcatggaca atcatgttat 120  
 atgtgcaata tatagactcc cagatgcaca taaacatatt acccgaccac cacaaggagt 180  
 taaattttcca aaaaagattg ttgaaattgg ggatctaaaa cctgaacctg ttttgtggca 240  
 tgaagattca ggcaggagac accattctga aaatgggagg aaaaaccctc caggatctat 300  
 ttctgggtcgg gagcttgggg atgcagcaca cagactcatt gtcaattcct tacaggcaaa 360  
 ggttgatact aatggatacc gccatccgca taatggacct cctatatctt atcctgcacc 420  
 catgggtcat tatcgacaac cagtgccttc gtatggttat gaatccagcc caggatatgt 480  
 tgcaatgccg ccacctattt cagcttcttc actccaaggc agaccacagt ttgcacctta 540  
 caaatgctgc cctact 556

<210> 6668  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220081a02d1

<400> 6668

aaaggataag tttttgtgaa ttacaatcca gcctcgggac aaaatacaca atcaattgaa 60  
 tagcctatca agtataaaaa tggtatcaaa cctgagttct aagggggggtt ataatttgac 120  
 actgatctat tcaatggaaa attgggtcaag tattgtctca actagactta ataggtgaaa 180  
 tacaagtaca actctcaaac ctcaactaat tgagagagaa aaagatttgg tacaacaatt 240  
 tttaattcgt agggagaagaat attccctgaa cgaaatgaat ttatttgcca ctgtcaccag 300  
 gtgggggcat tggattcctg tticctcttc tatctaataa agaattattga ttggatgaat 360  
 gatgaccata atccctgtgc ccaactcgggt tgtttggtgg agtccaattc tgatgagctc 420

<210> 6669

<211> 209  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220081a03a1

<400> 6669

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tgcacatggt tcaattgttg atatgacca ctacgtctgt taataatgac atgatcactg 120  
aatgccaggg tctcgccaca tcagaaagga gcaatttaca tccagctgca gttccatttg 180  
ccaaaattcc aaaagaattt gaagggtt 209

<210> 6670  
<211> 470  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220081a03d1

<400> 6670

ccaaaagaaa agggagtggg aggaccaaga ttgtttcaat ccaaacgcca ttacacagtt 60  
cacggctgca acgaatgaag atatattctt ctctttctac ctctaattga ccttcaacta 120  
ccaaaagttc aaaaccttgc tagtcatata ttgctaagat taaaactaaa aaatattaaa 180  
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tcatgaacaa gagggcaata ctcagggtac cacatattgc ctcgacata ctccacggtt 300  
tcttcttttg acatgtttgc tagctctttg aacctacat caccatgtcc ttcagcctgc 360  
ttttctgcaa ccgctgcatg tacaacagca gcccacact ctgctgtaac atctogtata 420  
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<210> 6671  
<211> 415  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220081a04a1

<400> 6671

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gctatcctgc acaaaacctt ggactatact tgcggagctg agacattcta gtataacgct 180  
ccaccgaact gtgcgcgctt aatgagccca acatcgggta atagccatct gactacgca 240  
cctgaacagg tgcttgata tggaggctga atatcatggg ttctgacact ctgaggaaac 300  
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<210> 6672  
<211> 350  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220081a04d1

<400> 6672

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cacctttata tgccacaaaa aattacgagg ggcaatagtt gcataatata acttgggtct 180  
ataatatcga gttgaaaaat tacatgtcag gaagagctga aagggttcac cgcacccctg 240  
ccttttgtac aataataact tccttggcga agattggggc ccgatggatt actatattca 300  
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<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220081a05a1

<400> 6673

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cgcacaaaaca cacggttgag gtacatgaaa tctcccgaac cctagtttta ggtcagaggc 180  
taaagaccag tgccgtctta atgaagctta tgtgcacacg taaaagactg cgtcctaacg 240  
gagtggcgaa cgataaaatg ttcggtctca tttgggaacc accagcttcg gcgtggcgtg 300



tcatggaagg cggttaagcct actatcatca ccaacgtggg cggccagag

349

<210> 6674  
<211> 487  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220081a05d1

<400> 6674

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gattgcctag actcttaatc cgattgctaa ttgatttcca gaaataaact taactattca 180  
atgccaaatt taatctgact tattccaagg ctcatgata gatggaccaa tacagcaagg 240  
atgaatggtg gacttctaca acagccactt gagctccttc aaaggttctg aaaatctttt 300  
taatttgctt tagaactaat cttcctcttt gcaaatgacg gcaaacagaa agctgctgta 360  
tgaatctcag agttgtaaaa tttcagtggg ttactgact tctgactctc attttcatct 420  
atgggattaa ctggatgctt gaaatcaaca ggtggtccct cagttgagca aagcataaaa 480  
ccaatca 487

<210> 6675  
<211> 559  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220081a06a1

<400> 6675

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acagaagcaa gcagctccag gaagttgggtc ggggagtga tgggtggtgaa attgttgatg 180  
ttaaggctcag ttctgttgca gaagttgagg ctgaagcaac tgaaaaattg tcacatatag 240  
ctgtggaagt ggatgtacag agtgataatt gtactgctga aggatcgagt ggtggtggac 300  
ggacagctgc tgatcttggt ccgtctgatt tggcaagagg aaaagatgag aatgtactcc 360  
attcttctgc ttatagtgtt gataagggtc ctgaagactt gactgaacgg gagtctgaaa 420

aagctgatga tgttgatgct gagaatcttc ctagtcagtc taaaaaggaa agaaatgagt 480  
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 ttgctgctga acatgtgga 559

<210> 6676  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220081a06d1

<400> 6676

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 aacaçaggat atattttctg atcctcttgc acaagggaca aagtgttaca aacatgtgaa 180  
 tatacaaatg aaaacactta caagcattgg tgggcattag attgtaggaa tataaatggc 240  
 tatggccatg aggatagatt gtggccatcc caccacccat aaggctcgtt cctcttacag 300  
 aactaccag ccaactggat ccttgcttgc tctcagctg gggcctgtga actaacaaca 360  
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 ggtcccgctg taagatctaa accctgcctt gcccatTTTT t 461

<210> 6677  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220081a07a1

<400> 6677

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 atttccacta ttacccaaac cctgtttgtc ggacagagtg tcagagagag acccttgaca 180  
 acatggcaca aactaggcca agcagaggag actcggattc ctgctccatc agatgcacca 240  
 acacgagacc acgatctggg gactgtgtgc tgatgcactc ctctgatacg agccagctca 300  
 ccgtacgtcg ggcgcgggga agagatcgaa cat 333

002220-ETFE560

<210> 6678  
<211> 457  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220081a07d1

<400> 6678

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aggaaacatt agaaatgta tacacagact tgaaagaata taatcacact tataagggtca 180  
ctgtgatgtg catgcaatac accaaaacaa ataagaaaca acttgagaaa aatactttga 240  
ctgaagctga ttttaatttt ctttctgtgt gaaacttgac actggtctta ggccatgttt 300  
gagtgtgtct tcccacacaa gatcgattct gttaacatct atggcccca cttcgggatg 360  
agaccaacct tcaaggctat gtaccactcc tcttgcattg cacgcgtgaa ccaactccct 420  
atccatcgtg tactcacaac acccaagtcc ttccacg 457

<210> 6679  
<211> 380  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220081a08a1

<400> 6679

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taatagaaaa taaaaccaga gtctgtgggt tgttaaaact aaggcatccc tttggacca 180  
tcagtagcgc tactactgtg tggacacgta tgtggcttgt gaaggaagcc tttcactagg 240  
tcaaacaagg aacaagacat gccatttta tgatcatcgt gacctattat tcagaagaac 300  
cccagtgtta ttcttagcac caggcctagg ccatgtgaca acactcactg atcaaaccat 360  
tgctttccct gtggcgacag 380

<210> 6680  
<211> 392  
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220081a08d1

<400> 6680

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 tatgttttcc aaccattaat cactatttaa attgccccac agtattgttt tgccttgtct 180  
 attgccactg atacattatg tcatgacaac aacaatagta ataatgaaag cctagaacca 240  
 attaagattc ctttggccct aactagccca aagcatgttt aatcattaat cacttgcacc 300  
 ctgcagcacc aaaccaatt gtccacctc caacattata cacaacctat attgttctct 360  
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<210> 6681

<211> 503

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220081a09a1

<400> 6681

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 gatcaaggtc gaaagtttca ggcgaaatgcc gagggagatt ccgacgagct tgtagatcca 180  
 cccaagggtg aggacaagat cgggtgctgtg cctcatggcc tttcaaccga ttcagatgtc 240  
 gtcaagaggg aggcggagtc gatctcgaag agatctctcc ggagcaacgc ggagaagttt 300  
 gagttccaag cggaagtgtc gcggcttatg gatatcatca tcaattctct ctacagcaac 360  
 aaggatatct tcctcagaga gttgatttcc aatgcttctg atgctttgga caagattagg 420  
 ttctctcccc tcaaggataa ggaggtgttg ggagaagggtg ataacaccaa gcttgatatt 480  
 cagaataagt tggacaagga aaa 503

<210> 6682

<211> 463

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220081a09d1

<400> 6682

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 tcaatatcag acccgctatc tacgatcaga attcttattc aggacgccat tggtagccgt 180  
 cggctaagct tcatccgacg atatcattcg ttgccggcat ccgccgccgc ggatggcaag 240  
 caaaaggcca gcgtgttttc ccgcataagc ttccctgctg aagaggaact tgctaagaag 300  
 agaaaagtca ccgattcttc cacaacagaa cctgccgctg ccgctgncga tgccgccgac 360  
 ggtccactga ttntttggca cacctgaaga caatgtcgaa cgggtactac gaatggagga 420  
 agagcagcag cgccggcgcg gactactaat ctacgcacga cga 463

<210> 6683  
 <211> 534  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220081a10a1

<400> 6683

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 tgctggatgg tagtccagct cctcgtttga agatttgtga ttttgggtat tcgaagtcct 180  
 ctgtgcttca ttcacaacct aaatctactg ttggtacccc tgcatacatt gtcctgaag 240  
 ttctgcttaa gaaggaatat gacggcaaga ttgcagatgt gtggtcttgt ggggtgacct 300  
 tatatgtcat gctggtgggt gcatatcctt ttgaggatcc agaggaaacct aaaaatttcc 360  
 ggaagacaat tcataggatt ttgaaagtcc agcactcaat tcctgattat gttcatatat 420  
 ctcccagtg ccgtcatcta atctcaagga tctttgtggc ggaccctgca catagaataa 480  
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<210> 6684  
 <211> 436  
 <212> DNA  
 <213> Glycine max

This block contains a vertical strip of ten small, square, black-and-white images, likely microfilm frames. Each frame shows a different pattern or texture, possibly related to the document's content or a specific scientific study.

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| ggggcgggatg | ctgtcgatat | aacttctoga | cgttccatgc | acctatacct | aaggctcgga | 60  |
| ctttgggttcg | tgaaaaaat  | taattat    | ttttaatt   | ttttattaa  | aaaaggga   | 120 |
| agactgccac  | ttaataatat | aacaccacca | caacttttaa | tacaaatcaa | catggggtct | 180 |
| tgaacggccc  | ataaaaatat | aaccgggaat | tatattcgga | acttaaaaaa | aaaaggcaac | 240 |
| ctttttacca  | gaatcctacc | ctttaaatgg | gaaacctttt | ttttcccaca | tattccaaac | 300 |
| ccggtgaaaa  | acccatgctt | ttctatttat | aaattgatca | aagaactcaa | ttcgaattgt | 360 |
| ttgccacccg  | gttacattga | ataaactatt | actcccatga | tattaatggc | ggggccggga | 420 |
| tccgttttta  | gggcct     |            |            |            |            | 436 |

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<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220081a11a1
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| tggccacca  | aatgagcaag | aagagaaagt | tcgtagctga | tggagtgttc | ttcgctgaac | 120 |
| tgaacgaggt | tctgacaagg | gagttagccg | aggacggata | ctccggcgTg | gaagttaggg | 180 |
| ttacgccgat | gcgcaccgaa | atcatcatca | gagccaccag | aacccaagcc | gttctcggtg | 240 |
| agaagggaag | gagaatcagg | gaacttacct | cggTggttca | gaagaggttc | aagtttcccg | 300 |
| agaacagtgt | tgaactttat | gctgaaaagg | tcaacaatag | gggtctttgc | gctatagcac | 360 |
| aggctgagtc | tctccgctac | aagctccttg | gtggcctagc | tgtgCGcagg | gcttgctatg | 420 |
| gtgtcttgag | gtttgatatg | gagagtggTg | ctaanggatg | cgaggTcatt | gtgagtggaa | 480 |
| aattgagag  |            |            |            |            |            | 489 |

2974

<213> Glycine max  
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<400> 6686

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 aacaaacatt gcacacaaga aaaactaggc actcagctac tatgaattac ttctacagtg 180  
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 agaagaaatc atgtaaccat ccttaaactt catatatattg gctctctggg ctctcaagtt 480  
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<210> 6687  
 <211> 406  
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 <213> Glycine max

<223> Clone ID: jC-gmf102220081a12a1

<400> 6687

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 gaacagtgtt gagctttatg ctgaaaacgt caacgatatg ggtctttgcg ctatagcaga 360  
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<210> 6688  
 <211> 286  
 <212> DNA  
 <213> Glycine max

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aagctccatt gtactctcct cctaaaaggc tctgatgttc taatacaagt atttccaatg 180  
aaagacaaac tctctcgagt gatactttct tggattctca gacggagcat tattcagaag 240  
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<210> 6689

<211> 522

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220081b01a1

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cgacgaaact gttgaagaaa ctgggaagtt ggtgggtcaa gaattagatc tattgttttc 180  
tcttcacact gataaggagg atggcacttc cctaggtggt tctctcctgc ctcttttccc 240  
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aaaggctgct ttagttgctt tagcttctca tgcattctgaa cctagcgaag cagaaagatt 360  
aaagttcctt tcgtctctc aggggaagga tgagtactcc aaatgggtgg ttggaagcca 420  
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<210> 6690

<211> 493

<212> DNA

<213> Glycine max

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<400> 6690

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 gtttaccgat ttctgagact aactatcaca gagtcccccg ataaataatc ccacttcaga 180  
 gggatccaac ctatcataat aagagaatat aaagataaca gaaaataaaa gaaaaaagg 240  
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 ctaaatttcc ggaaaggcag tgactaatct caagaatata cttcagccaa tcctgaattt 360  
 agcatatcaa atagcaagga taccacaatc tgggcagaag aatgatcaga aaaatcacca 420  
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 cgagtccaca ttt 493

<210> 6691  
 <211> 466  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220081b02a1  
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 agttttggac aaaggtggac ttttttctgc cccagaatt gttgtttcac caggtttctc 240  
 agccactgta gcgtgttctt aagacgtgcc gaagagaatt caactgaaat tcttttaata 300  
 tttaattact gtactagatg agacctaagt tgtagtacgc tccatgatac aacaccatgt 360  
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ctcgacgtgt gtgggat 437

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<211> 249  
<212> DNA  
<213> Glycine max  
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gcacaaataa caatacaaat tgatagtgtt acagctgagg aaaggcacct gctcaaagtg 180  
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<210> 6694  
<211> 201  
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<400> 6694

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<210> 6695  
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 <213> Glycine max

<223> unsure at all n locations  
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 actcaataat ttttctacct cctcaccaca tggtagcaat ttgaacatca ttgacctcac 240  
 tcacatgaca atctccggct tcagaatatt tgacttgatc tccttgtgcg gcaaaacaac 300  
 accaccattg ctgtaaattt catcacatac atggacatct tctccaagga tggtcattat 360  
 tatccactcg agccattgca ccaacagttg aatgccaccc aacaatactg ctggatacac 420  
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<210> 6696  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220081b05a1

<400> 6696

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 acaattcctc aaagatttgt acgagacttg acagaaagac caacactcac tacacctctt 180  
 tccccaccac atagtgcacat gccagtcatt gatttctcta agcttatcaa agggaacaaa 240  
 gaggaagtcc tcaactgaact ttttaattctt gcaactgctt gtgaagagtg gggatttttt 300  
 caggtaatta atcatgaaat tgacctcaat ttgctggaga gcatcgagaa cctgagcagg 360  
 gagtttgtca tgctaccttt ggaagagaaa cagaaatacg ctatggcttc aggaacagta 420  
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attgctcttg gaa

493

<210> 6697  
 <211> 528  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220081b05d1

<400> 6697

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 acctgctgaa atatgaacaa gacatgcccc atcoctgaac ctactacctg taaggcctat 240  
 ctgtgctatg cacatgttct ttcaggccaa agcaaaaaaa aaaggagctt ttgatacaca 300  
 tctaattctga ctaatcaaat aacatcagat ggcaactggca agccgcttct gaagcaacta 360  
 ctaccactaa cgtttagtgac ggtctcatct ttgcagggcc cactgcattt gagttttgat 420  
 tcacagttct ggcatttcag gcaaacaaaa cgagctggaa caggatcagt atcatggatg 480  
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<210> 6698  
 <211> 619  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220081b06a1

<400> 6698

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 cctggctctc ttcaaactta agacaaaagc cgctcctgct aagactaagg ttacaaagcc 180  
 aaagcaaaag gttgaagatg gtatctttgg cacttctgga ggatttggtt ttactaagca 240  
 gaacgagctc tctgtgggtc gtgttgctat gcttggattt gcagcatcat tgttgggtga 300  
 aggaataact gggaaaggaa tcctagcaca attaaacctg gaaactggaa tttccattta 360  
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tttaggtgac cgtggaaaat ttgtcgatga cgaacctact actggagggtg ttattccttc 480  
 aggcaaaggc ttcaaggaag cccctgggct cggttcaggt cctttattcg gattcacgaa 540  
 agcgaacgag ctatttgtgg gaagattggc ttaattgggt tcggttttta agtgattgag 600  
 aaattatacc gaaagggag 619

<210> 6699  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220081b06d1

<400> 6699

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 atacagagca gcaatgaata aaaggagaac gttgaacaac actatgggct agatttcatt 180  
 gattggtacc ccctggtaaa tgtaaaaatg gggtaaagct cccttcccag gaatcatttc 240  
 ttccatcgcc gacaaaacaa aaccaattg agccgggtctc cccacaatat agatcgtagc 300  
 ctttcacgaa tccgaataaa ggacctgttc cgagcccaag ggcttccttg aacctcttc 360  
 ctgatggaat aacaacttca atactatgta cgacatggac aaatattaca tgggtacc 418

<210> 6700  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220081b07a1

<400> 6700

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 tgggtgcacc aatgcctctt cttctcgctt ttctatgagg gctgactgga tgccaggcca 180  
 gcctagacct ccttaccttg atgggtcagc acctgggtgac tttggattcg accctcttcg 240  
 tcttggtgaa gtaccagaga atcttgagag gttcaaagag tcagaactca ttcactgcag 300  
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ggtaaaggct caggaatggg cagcagttcc tgggggccaac acgacctacc taggcaatcc 420  
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<210> 6701  
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<400> 6701

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<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220081b08a1

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ttcaagactg tgccaacaac aacaacaaca ccgacaccaa ctattggaac ctgaagatgt 360  
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gcactaagca aatgatggag agtgaggaag g 451

<210> 6703  
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 <213> Glycine max

<223> Clone ID: jC-gmf102220081b08d1

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 cgacacatgc accacctagt aatcataatt ttacatcttt acatacaaaa tacaagact 180  
 ttaaatttta aaaagaagaa aagagataaa cagatcatct taatgaaatg aaacccaaac 240  
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 cgtttgattg aatcacttgg acttgaaggg aatggccctg attacaacct ggtggtagag 360  
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<210> 6704  
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 <213> Glycine max

<223> Clone ID: jC-gmf102220081b09a1

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 aaaatttacc tccaaatagc cgagggttat tggacaacag catgtaagac gtgatagtat 180  
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 ggtttgccat ttatattgag ggtgcttaca atttttgtac aaatatctaa aggcaagatg 300  
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<213> Glycine max

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 cggaccaggc tcttctcctt gcaaagtcta tagatgaaga gcacatacat gggctggcga 240  
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 tgc 303

<210> 6706

<211> 504

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220081b10a1

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 caacatgcca agtccaacag aggttggtgc ccttcttaag gctcaaggta tccaacatgt 420  
 tagactctac gatgccgaca gagccatgct tcgcactctt gccaacacag gaatccgtgt 480  
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<210> 6707

<211> 380

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220081b10d1



<400> 6707

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accattttttt ggcagggtgct aagagaatgt taaacctgac gctggagttc catcagccat 180  
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gggtgctgcg ctgatcattg aaacggtcga tccagagtga ctgaccattc atgagaacgt 360  
ctatctgagc acgatatacg 380

<210> 6708

<211> 421

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220081b11a1

<400> 6708

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gcttttgatc agaacagaag gaagaatcac ttagtataga tggttgcaga tcactattct 180  
cctcctctgt ttagtgtggc tccaatgatg gactggacag atcatcacta taggactttg 240  
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gtatatcaaa agggaaacct gattattggc gttttctcca gatcaacatc ctattgtgct 360  
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<210> 6709

<211> 328

<212> DNA

<213> Glycine max

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 aacaccttct atactgaatc ggcacactgt ctttctatgg acacttgatg acagtcgttc 180  
 tacaagatga ctccaacctg caggatgaca gtacatttgt attgcatatc agattcatag 240  
 gtgcatttct tatgcttagt taaacgctca ccgttatgtt cctactcatg gatggattac 300  
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<210> 6711  
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 <213> Glycine max

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 cgatagagtt aattaagtaa catagcacat gataataata atagtaattc gtaataacaa 180  
 caatagtaag ctaactgtac aaaaggcttc ggatactttc aatttcccaa atcaatagag 240  
 cgatgttgat gaatttccaa gacaaactcc ccaaaaaaga gatccttcac ttcttctctt 300  
 cagtctttac ccaaatacca taccataaca taccacgaga tagaataaaa aatatttaca 360

cagactcgca tcttcacaaa taaatctgca ttgttaaata ttaataataa tatcagttaa 420  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220081c01a1

<400> 6712

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 gcaaggggtgc caatgccaat gctcttaggg aatgtgttcc atggaaaggg ggaagtacac 180  
 catgggcaat gatttgtggt atggaccaga cagagtgaaa tacttgggac ccttttcagc 240  
 tcagaccctt tcatacttga aaggagaatt cccaggggat tatggatggg aactgctgg 300  
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 caattttttt caacatatgc tctcccccta gatcacaag gcaaccccaa gggtttttaa 240  
 cccagggatt cgggaaaaaa aaatcattta cgtttaaaaa cctggggcca acttaggggc 300  
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gcctttt

367

<210> 6714  
<211> 372  
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<213> Glycine max  
  
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<400> 6714

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tattttgaga agcttccttt ctctccttaa ctaaaccctt tgattgttcg gcttcatcta 180  
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ggaccctaata ca 372

<210> 6715  
<211> 357  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220081c02d1  
  
<400> 6715

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aatgcttat tgtcgcccaa aaaacagggg gatcaaggaa aatgggggga agcgaccaa 180  
agggggtccc cccccataa caaaattggg gggcaacaca atgggggggg tcttacatgc 240  
gcgggcgccc aaatggacca aggggggggc gacaaacccc ttaagaggcc cggccctaaa 300  
aaagggataa aaaaggcctt ttgaatccaa ggcgggataat ggaaaagggg ggccctt 357

<210> 6716  
<211> 479  
<212> DNA  
<213> Glycine max

**SECRET**

TO : SAC, NEW YORK  
FROM : SAC, ALBANY  
SUBJECT: [REDACTED]  
[REDACTED]

NY 67-1089  
ALB 67-1089  
[REDACTED]

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DATE 10-10-20 BY 60322 UCBAW/BJS

|            |             |            |            |            |             |     |
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| tatgattgct | aggggagtg   | tgctgggtcc | tgaccagccc | gtgatcctcc | acatgcttga  | 180 |
| cattcctcca | gcagcagagt  | cgttgaatgg | ggtaaaaatg | gaattggtgg | atgctgcatt  | 240 |
| ccctcttctt | aaaggtggtg  | ttgctacaac | cgatgtgggt | gaggcatgca | ctgggggtcaa | 300 |
| tattgcagtg | atggttgggtg | gattccctag | aaaagaaggt | atggagagga | aggatgtgat  | 360 |
| gactaagaac | gtctgcattt  | acaagtccca | ggcttctgcc | cttgaaaagc | atgctgctgc  | 420 |
| caactgcaag | gttcttggtg  | ttgctaacc  | agcacacacc | aatgcattga | tcttgaaag   | 479 |

<213> Glycine max

<400> 6717

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| ctatgggtcc | atttggagtt | ttaaagttca | gacaaacata | aacagaatct | agaacattgt | 120 |
| ctagaaattt | caaatttaat | gtctgatttt | cacacaatag | agataaattt | caactaccta | 180 |
| atcacagatt | cctctaacac | aaacctccaa | gctacttcct | aggtgaacgt | gtgaagaagc | 240 |
| tagtccgata | gcaagaagct | agaggcgatt | aatggaacgg | aatcagtcaa | ataatgatca | 300 |
| ccattttggc | tggtgttatt | gaggaatgtc | gatagaat   |            |            | 338 |

<213> Glycine max

<400> 6718

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 gatgaagtgc ttatggatgc aggttcagat cttctccctg catttgcaaa gaccattgga 300  
 gctcaatttg ctcccatttt tgcacagcta tttgaacctc taatgaaatt tgcaaaatcg 360  
 tctcgtcctc ctcaagatat gactatggca gttgcctgcc ttgctgaagt tgctcacaac 420  
 atgggtttta ctatagcatg ctatgttgat aggggtgatgc ccttggactt aaagaactag 480  
 catcatgcga ggcaactaat agaaggaatg ctgcattttg tgttggagag tttgcaaaaa 540  
 tggatcatgaa cagctttgaa aactatgaca 570

<210> 6721  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220081c05d1  
 <400> 6721

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 ataggaaaga cacgatatct tttggaaaat caaatgctac ttatttcctt ttaagcaaca 180  
 ttttgatagt ctactgaaac caatcacagg ccctaaaacc taaacaaaca aatttcttga 240  
 cactactctt gactgctgaa aacaatgacc aactaaaatc gaaatgtaga tatttcaaaa 300  
 ctaccattga gggcctaatt aacctaatac agagttagtc cttgacaccg gactctacat 360  
 cgaatgattg ggagaaggct gcatattact ggggccattg accatcggat 410

<210> 6722  
 <211> 494  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220081c06a1  
 <400> 6722

tccatttgtc tctgatcttc caactcctta ttcttcagag aagagacaaa atggatcacc 60  
 atttcaacttc agaaacctct ctcatatttc ttctctcat cacatccctc tctcccttg 120

ccaccgccac caacatcaat atcctccacc acgacctcca atccgacatc accgaattct 180  
gcaagaaaac caccaacccc gccctctgtg ccgagaccat ccatactcac tttctcaaga 240  
acagaatcga gcccttcaag gcgctcgaca tagaagtga cgccaccctg gcgaaggcaa 300  
aaaaaacct agccaacatt caaacctag aatccaaaac gggcaccacc aaatcgttca 360  
aggactcggt cgacatttgc aaggaccagt acaagagcat gctcgacgcc ttcaaggaaa 420  
ccaaagccgc gattgctaata aaggacatca tcaccgctaa gttcaagttc agtgctgttt 480  
tgtcggtcca agcg 494

<210> 6723  
<211> 297  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220081c06d1  
<400> 6723

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gggaggaaaa attaatttat atccagcaac ggccccaatc tttggttcaa ctagcagact 120  
ataaattgac cctgtcccg cctgatctc gacaaaaaca tgggttactta tgtataaaaa 180  
tggacacctc acctgaaaaa tatgagacgg gttcggtgac ccatgccaat gccatggggg 240  
cggttggttag caccattata tttttgggtg gaacgagccc tttcgccatt tcataaa 297

<210> 6724  
<211> 503  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220081c07a1  
<400> 6724

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aggaacttga ttaccttggt ggggcagtat caaaccccaa aaggccatat gctgccattg 120  
ttggcggttc caaagtctca tctaaaattg gagtgattga gtcactttga aaaaaagttg 180  
acatccttct tcttggtgga ggaatgatct tgacatttta caacgcacat ggtctttcag 240  
agggttcata cttgttagaa gaagataagt tggatcttga tacatcactg cttgcaaaag 300



cctaggaata gggggtgttt ttgttggtac caagtgatgt ggagattgca gacaaatttg 360  
 ctctgatgc tgatagcaag gagctgccag catctgccat ccatgatggc tggatcggat 420  
 tggatgttgg gtcacattct gttaaactcat tcaatgtatc gttggatact acccaaacca 480  
 tgatatggaa aggaccaatg gga 503

<210> 6725  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220081c07d1

<400> 6725

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 gagtatatgc ataatatatt actgttatac caaccttgca aattgacaag aagttcatgt 180  
 ccgttacact gtctccaagt cccaaatcag gcaagttggt tccaaactcc ttcaatatca 240  
 cctccttttt gtgaacacca acaagcacac caggctcctt agcgagcccc gtaaccctcc 300  
 ccgacgccgt caccaccagc tttgtccga gcaccgtatc cgcgccgaga aacgttttcg 360  
 cgaacggctc caccatcacc cgggggctcg ccgtgacaat gcaccgcctc cccccgaacg 420  
 cggtgaacac gcgccacgtg gtggggtgca cgtcctcggc gtagaacctc ggcagcacgg 480  
 agcgggacac gagctcgacg 500

<210> 6726  
 <211> 526  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220081c08a1

<400> 6726

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 tccccagtga agaggcagag agatgatggg gaagaaaatg gtgtctctgt ttccatggac 120  
 gcggagggtg gcaaagacct tcttagtaac ggtttatcat ctgtgattcc tgggtggttc 180  
 tctgaaatca gtgcaatgtg gcctggagag gctcactcct tgaagggtgga aaagattttg 240

tttcaaggaa agtcagaata ccaaaatgtc atgggtcttcc agtcatcaac atatggcaag 300  
 gttcttggtt tggatggagt aattcagcta acagaaaggg atgaatgtgc ctaccaagaa 360  
 atgatcactc atcttctctt ttgctctatt ccaaacccta aaaagggtttt ggttatcggt 420  
 ggaggtgatg gaggggtcat acgagaagta gcacgccatt ctttagtgaa aagatagaca 480  
 tttgtgaaat tgacaagatg ggtgttgatg tctccaaaca atactt 526

<210> 6727  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220081c08d1

<400> 6727

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 tacttgcccta ggaaaatatt aaaagcataa gttaatacag gtggaccccc tagtccgcaa 120  
 ctgaagttta atcacaataa ttcagtactt tccaacccaa ggacgtaaac taagagtaat 180  
 tcaacatact actatcagct tagcttgcaa ttgcatcaa actgcttctt atggacacca 240  
 ctaattgtat tcgtggctac gttgcttctt gtggcagggt catccgtgca attgaaaacc 300  
 aggtttgacc ccatcatttg atcatttgat cagaatgcat cgaattgggt atgcctcaga 360  
 gtgaaccaac ctaagaggca agcaattcag tgaatatatt cctgctggga catcatcaag 420  
 ctttaggcct tccacaagaa tgatttcctt gcttttcagg aaaacaagat gagatggaat 480  
 ggagtgatca taagcagcaa cagata 506

<210> 6728  
 <211> 584  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220081c09a1

<400> 6728

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gcggcgaagc caaacgcaga atcggcggca gaaattgcc a cgggaagcac gtcgaagacg 180  
 ggtgaaccaa acacaaaatt ccattccacca cttctctttt caatcccaa ctcaaactctg 240  
 tgaagaaaat ctcaatttct aaattgtaat tcttagcact actgctagta gtagtaaaaa 300  
 aaaacaatta gaaagtagta gagtgttttt ttttcttttt ttcgtttggt ttacttttaa 360  
 gatgggtgag aagagcaacg ttggcggcga cgcgattaac acgacactgc ttcacgggaa 420  
 gtacgagctg ggccggctgt taggccacgg aaccttcgag aaggtgtacc acgcgcgcca 480  
 cctgaagacg ggaaagagcg tggcgatgaa ggtggtgggc aaagagaagg tgggtgaaggt 540  
 aggcgatgatg gagcanatca agagagagat ctacgccatg aaca 584

<210> 6729  
 <211> 328  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220081c09d1  
 <400> 6729

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 ataccggggg agacgcccgt tgaccgccgc tacagcggcc acggttactc ctccgaggac 180  
 ttggaaccgg gatcttggtc tagctaccgt gaaagaaaga aggcaggtcc atggactgag 240  
 gacgaacata taatgtcagg gcttgcatg cataaggtgg gcaaaggcga ttgacgtatg 300  
 attgaaggaa ctatgttata taaaggac 328

<210> 6730  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220081c10a1  
 <400> 6730

tgttatactc gccgtcagt atgtacggc ccgtaagacc agcatactag ctcgggggcc 60  
 gccctgtctt tttcattctt tttcaatttt aacaccatca aatgaacctg gtggtatgac 120  
 tgaaaccgga ggagaaagca agactacagc tacactactg gagatcttaa actaaccac 180

002220.032550

gaaatataaa ctaattgtaa tgtaggaaag cacgggatac ctgaaatctc agacagagaa 240  
aagggcatcg gtaaatectg taataattat tgaatggaat gcagaatgta cgactaattc 300  
tggacatact aataatagtt gacagtcata gtatcatgct atggatcggt tttgggggtca 360  
ctttcagcct ctaacttagt gtcattttcc ttctcgactg gtgggtgacg actgatgtcc 420  
acgct 425

<210> 6731  
<211> 522  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220081c10d1

<400> 6731

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gtgggtgacag ttcaccaaag atgataacaa tttcattaca cgaaagtgtt ttcaaatecg 120  
gttccttggt ttatttcact gctgatagta tgcaatggat tgttgatgaa ctccctgatc 180  
aggccctttt gaacactgct gaatggagat tccttatccc acaattatac aaaaaatatac 240  
caaatacga catgaatctt aatatgtctg tatcttctcc accagatata caagtgacaa 300  
acaaagatgt cgggtgtcaac attttcatag acataacaat tgatgttctg gaagatgggtg 360  
aagacatacc tgttgcatgc atctcgggtg attttagtgc ctcttgtgct gtggaaatcg 420  
taggaaacaa tcttgccggt tgcttaaatt gagaaagttt ccacgtactt gaaatggagt 480  
taaataggga aactgcacat gaatttgatt tagtcagtga ca 522

<210> 6732  
<211> 523  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220081c11a1

<400> 6732

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ttctcttgct gttctctttt tcttctcttc cttggagaag agttttgcct ttcaagcact 120  
aggaaaggag gacacagaaa gcaacaatct tcacagtat actcatcgtg tacacctccg 180



tagatattat cagctccac cctcaatctg tcagcactga aggagaagac gttaaaattc 300  
 ctccctacat tattagctct gaatatgcta atactgccac aacttctgat gagaaactta 360  
 atctgcaatc ttcaacttct gatgagaaac ttattattct gcgatettca acttctgatg 420  
 agaaacttat tctgcaatct tcaacttctg aggggaaaca cttatctgag ctttcttcaa 480  
 cttat 485

<210> 6735  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220081c12d1

<400> 6735

agcatctcaa aagttaatag ataacagaat tatttattgt aagtatatca atacaatctc 60  
 aaatgagaaa gagagagggt atatacgtaa ttaacaaaca taatgaacat aatgagcaag 120  
 aggtcggact cggagctaaa caaatcgaca aaacttaa at tctaatata gttcttattc 180  
 gattaggtgg atgccttgcc aacgacctgg ggtccggata accattcttg ggatccataa 240  
 tagccttata aataaggta taagcttcgg ccagtgcctt ggccacgcca atagtagctt 300  
 cagaacgcaa ccttgaacc tgcattctgt caaatccgg cagggaactt tcacttccca 360  
 agataaggcc aaacagagct ttcaaact ccgaaagaac agctggacta gtgtcctcca 420  
 tctcagccaa tggg 434

<210> 6736  
 <211> 514  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220081d01a1

<400> 6736

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 acgtgtaata ttattcacia agtctagcat cgagtcacgt ctacccccaa gtgctagagc 120  
 cctccctgtg tgaggacacc ttaccttcc tcaccaaagc ttccccacc aaggcattcc 180  
 acaacatctc aatacgttat ggtcctttgg tctacctctt gttcggttcc aagccttgtg 240

ttcttgtttc atcaccgaa atggcaagac aatgcctcaa aaccacgaa acatgtttcc 300  
 taaaccgacc caaaagaacc aatttggact acatcacata cgggtcttca gattttgtgc 360  
 tggcacccta tggaccctat tggagcttca tgaagaggct ttgcatgact gaactcctcg 420  
 gtggccgcat gcttcaccag cacctttcca ttgagaaga agaaaccaag ctgtttttta 480  
 agagtatgat gaacaaggct ttgtttggag agga 514

<210> 6737  
 <211> 522  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220081d01d1

<400> 6737

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 caacatttca tgctaatttt gcacacaaga aaaaaaaggg tatttttttc ttcattaatt 120  
 aaatgcatgg atagactaaa acatgcacaa gcatagatta gacttcagca aaaggatgga 180  
 gtctagccgc agggaaacat tgcaagggat gtgccctagg aagggccatt cctgggccct 240  
 cttccatgtc aaccattccc ttcccttctt caccaacctt ccattcaaaa cactgaatca 300  
 ttccagctag ggtgttggga ataatctgca aagctagtga agcaccaggg cagcttcttc 360  
 tcccagctcc aatgacaaa agttcaaaat gctgcccctt cagatccaaa ggactctgtc 420  
 cctcttcgtt aaggaacctc tctggcttaa actcaagtgg attttccaa tagttagggt 480  
 ccctaccaat ggcccacaca ttacaaaca aagtgggtcaa tg 522

<210> 6738  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220081d02a1

<400> 6738

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 cgcgctccca tcattgttca ggtgcttcaa agcatgtgtt ttatgaacaa taagattttc 120  
 agaagacatc taagagactt ctacccttg ctaacaaaac ttgtttgtgt gtgaccagat 180

002220.032200 0953113

ggatgttcgg ggagctcttg gtgatttatt ccacgcacaa ctaaaacctc ttttaccata 240  
accgtcgtat aatgccgctg ataatactgt gtgatacagat ggacgttcgg ggagctcttg 300  
gcgattcatg ccaagcacaa ctgaaagctc ttttaccata actgtcttat aatgccgctg 360  
ttaggattct cagatataaa ctccagggtg ttgccgttgt cagttctagc tggcttggag 420  
agaagatata tggcggcttt ctttgtttta tcttttatgg aaattttgtg attgtgctaa 480  
cagtt 485

<210> 6739  
<211> 303  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220081d02d1

<400> 6739

agaaaccaa ttacattgct atttcttttc taaaaacgg ttagtacaat cacaaaattt 60  
ccgttaaaag attaatacaa aaaaatgccg ccatattttt tttttccaag ccagctgaaa 120  
ctgacaacgg caataccctg gagtttattt ctgagaatcc taacagcggg attataagac 180  
agttatggca aaagagcttt aagttgcgct tggcataaca taccaagagc tccccgaacg 240  
tacatctgat cacacaggat tatcagcggg attatacgac ggacatggta aaagaggctt 300  
tag 303

<210> 6740  
<211> 538  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220081d03a1

<400> 6740

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gtggccaacc cagcagatc caacggccga gatgtactcc gcgtttttta caaacgacgt 120  
caatgctggt gagtactctc cgtactatct tcaagaagca ctaacggctc tgcagcgttt 180  
tctgccgtct aacgaaacgg acgctgactc ggacacggag gctcaaccgg acgcggcggt 240  
ggacgcgtac tcgtgcgacc atttccgcat gtacgagttc aaggtccgct gatgcgcacg 300